

INDEX

Volume 7, 1965

SOVIET PHYSICS-SOLID STATE

AB
For
Di
M
AB
X-
A
L
AB
Inv
S
a
AE
Inf
D
S
AF
Ro
M
7
Al
Co
C
Al
Co
C
A
A
S

A
A
K

A
M

A
U

A
F

A
I

- ABAEV, M. I.**
Formation of Pores During Decomposition of Solid Solutions of Divalent Impurities in Sodium Chloride. (E) M. I. Abaev and M. I. Kornfel'd. *J.* 2271 (1966) [*J.* 2809 (1965)]
- ABAGYAN, S. A.**
X-Ray and Optical Investigations of $\text{GaAs}_{1-x}\text{P}_x$ Crystals. (E) S. A. Abagyan, S. M. Gorodetskii, T. B. Zhukova, A. I. Zaslavskii, A. V. Lishina, and V. K. Subashiev. *J.* 153 (1965) [*J.* 200 (1965)]
- ABASOV, S. A.**
Investigation of the Time and Temperature Dependences of the Strength of Amorphous Selenium. (E/T) S. A. Abasov, B. B. Kuliev, and Kh. M. Khalilov. *J.* 116 (1965) [*J.* 153 (1965)]
- ABASOV, S. A.**
Influence of the Phosphorus Impurity on the Temperature and Time Dependences of the Strength of Selenium. (E/T) B. B. Kuliev, S. A. Abasov, and Kh. M. Khalilov. *J.* 1496 (1965) [*J.* 1860 (1965)]
- ABDULLAEV, M. N.**
Rotation of the Plane of Polarization in Tetragonal Crystals with MnF_2 Type Structure. (T) N. G. Guseinov and M. N. Abdullaev. *J.* 1404 (1965) [*J.* 1739 (1965)]
- ABLOVA, M. S.**
Conditions for the Existence of the Electromechanical Effect in Germanium. (E) M. S. Ablova. *J.* 2217 (1966) [*J.* 2740 (1965)]
- ABROYAN, I. A.**
Conductivity Induced in Germanium by Bombardment with Potassium Ions in Different Crystallographic Directions. (E) I. A. Abroyan and A. I. Titov. *J.* 1619 (1966) [*J.* 2007 (1965)]
- ABROYAN, I. A.**
Secondary Emission of Germanium Under Bombardment by Potassium Ions Along Various Crystallographic Directions. (E) I. A. Abroyan, V. P. Lavrov, and A. I. Titov. *J.* 2557 (1966) [*J.* 3159 (1965)]
- ABROYAN, I. A.**
Angular Dependence of the Secondary Emission Coefficients for a KBr Single Crystal Bombarded with Potassium Ions. (E) I. A. Abroyan, V. P. Lavrov, and I. G. Fedorova. *J.* 2954 (1966) [*J.* 3660 (1965)]
- ADAMYAN, V. E.**
Magnetic Susceptibility of Samarium Monosulfide. (E/T) V. E. Adamyan, A. V. Golubkov, and G. M. Loginov. *J.* 239 (1965) [*J.* 301 (1965)]
- ADAMYAN, V. E.**
Investigation of the Magnetic Susceptibility of Neodymium Chalcogenides. (E) V. E. Adamyan, A. V. Golubkov, G. M. Loginov, and V. N. Fedorov. *J.* 2715 (1966) [*J.* 3372 (1965)]
- ADIROVICH, É. I.**
Isolation Phenomena in Diode Structures in Cadmium Sulfide Films. (E/T) É. I. Adirovich, L. A. Dubrovskii, and I. B. Sazdalkina. *J.* 759 (1965) [*J.* 943 (1965)]
- ADIROVICH, É. I.**
Narrow-Band-Gap Semiconductor Films which Develop Photovoltages up to 5000 V. (E) É. I. Adirovich, T. Mirzakhmedov, V. M. Rubinov, and Yu. M. Yuafov. *J.* 2646 (1966) [*J.* 3652 (1965)]
- AGAEV, A. M.**
Properties of the Electronic Spectrum in Heavily Doped Gallium Arsenide. (T/E) V. I. Fistul' and A. M. AgaeV. *J.* 2461 (1966) [*J.* 3042 (1965)]
- AGAEV, A. M.**
Determination of the Deep-Lying Levels of Fe, Ni, and Co in Gallium Arsenide. (E) V. I. Fistul' and A. M. AgaeV. *J.* 2975 (1966) [*J.* 3681 (1965)]
- AGEEV, A. N.**
Investigation of Ferrite Garnet Crystals Containing Vanadium. (E) A. N. Ageev, M. M. Venetskaya, G. A. Zablotskii, I. E. Myl'nikova, R. V. Pisarev, and O. B. Proskuryakov. *J.* 2310 (1966) [*J.* 2853 (1965)]
- AGEKYAN, V. T.**
Indirect Excitons and Phonon Spectrum of Cu_2O . (E/T) V. T. Agekyan, E. F. Gross, and A. A. Kaplyanskii. *J.* 623 (1965) [*J.* 781 (1965)]
- AGRANOVICH, V. M.**
Theory of Long-Wavelength Surface Excitons in Dielectric Materials. (T) V. M. Agranovich and Yu. V. Konobeev. *J.* 83 (1965) [*J.* 111 (1965)]
- AGRANOVICH, V. M.**
Theory of Induced Absorption of Light in Crystals. (T) V. M. Agranovich and L. N. Ovander. *J.* 2263 (1966) [*J.* 2799 (1965)]
- AGRANOVICH, V. M.**
Surface Excitons in Uniaxial Crystals. (T) V. M. Agranovich and O. A. Dubovskii. *J.* 2343 (1966) [*J.* 2885 (1965)]
- AIRAPETYANTS, A. V.**
The Relationship Between Carrier Concentration and Unpaired Electron Concentration in Pyrolysates of Polyacrylonitrile. (E) R. M. Vlasova and A. V. Airapetyants. *J.* 2488 (1966) [*J.* 3079 (1965)]
- AKHMEDOV, A. G.**
Double Nuclear Resonance on the Hyperfine Levels of Paramagnetic Ions and F^2 Nuclei in CaF_2 . (E) A. G. Akhmedov and R. A. Dautov. *J.* 727 (1965) [*J.* 915 (1965)]
- AKSEL'ROD, M. M.**
Magnetoresistance Oscillations in Pure n-InSb. (E/T) I. M. Taidil'kovskii, M. M. Aksel'rod, and V. I. Sokolov. *J.* 253 (1965) [*J.* 316 (1965)]
- AKSENOV, V. V.**
Diffusion and Solubility of Copper in Lead Selenide. (E) F. F. Kharakhordin, D. A. Gamberova, and V. V. AkseV. *J.* 2813 (1966) [*J.* 3481 (1965)]
- ALADINSKII, V. K.**
Impact Ionization and Distribution Function of Hot Carriers in Si. (E) V. K. Aladinskii. *J.* 1460 (1965) [*J.* 1813 (1965)]
- ALADINSKII, V. K.**
Electrical Properties of Ge-GaAs Heterojunctions. (E) V. K. Aladinskii and A. A. Maslov. *J.* 2789 (1966) [*J.* 3452 (1965)]
- ALADINSKII, V. K.**
Influence of Phonons on the Temperature Dependence of the Tunnel Breakdown in Silicon. (T/E) V. K. Aladinskii. *J.* 2881 (1966) [*J.* 3571 (1965)]
- ALEKSAANDROV, B. P.**
Flotation Study of the Distribution of Singly Charged Impurity Ions in the Growth of NaCl Single Crystals. (E) G. A. Andreev and B. P. Aleksandrov. *J.* 135 (1965) [*J.* 177 (1965)]
- ALEKSAANDROV, L. N.**
Low-Frequency Internal Friction in Plastically Deformed Solids. (E) L. N. Aleksandrov, V. S. Mordukh, and L. F. Savina. *J.* 2552 (1966) [*J.* 3153 (1965)]
- ALEKSEEV, K. A.**
Dependence of the Melting Point of Selenium on Pressure. (E) K. A. Alekseev. *J.* 1440 (1965) [*J.* 1787 (1965)]
- ALFEROV, Zh. I.**
Some Photoelectric Properties of Gallium Phosphide-Gallium Arsenide p-n Heterojunctions. (E) Zh. I. Alferov, N. S. Zimogorova, M. K. Trukan, and V. M. Tuckevich. *J.* 990 (1965) [*J.* 1235 (1965)]

- ALFEROV, Zh. I.**
Growth and Electrical Properties of Epitaxial Layers of p-Type Gallium Phosphide. (E) Zh. I. Alferov, V. I. Korol'kov, M. K. Trukan, and S. P. Chashchina. *J.* 1915 (1966) [*J.* 2370 (1965)]
- ALFEROV, Zh. I.**
Recombination Radiation Spectrum of Gallium Arsenide with Current Excitation via p-n Heterojunctions of Gallium Phosphide-Gallium Arsenide. (E) Zh. I. Alferov and D. Z. Gabruev. *J.* 1919 (1966) [*J.* 2375 (1965)]
- ALIEV, N. G.**
Thermal Conductivity of Holmium and Erbium from 2 to 100°K. (E) N. G. Aliev and N. V. Volkenshtein. *J.* 2068 (1966) [*J.* 2560 (1965)]
- ALIEV, S. A.**
Thermal Conductivity and Thermoelectric Powers of n-Type Indium Phosphide at Low Temperatures. (E) S. A. Aliev, A. Ya. Nashed'aki, and S. S. Shalyt. *J.* 1287 (1965) [*J.* 1590 (1965)]
- ALIEV, S. A.**
Temperature Dependence of the Effective Electron Mass and Some Data on the Mechanism of Electron Scattering in Mercury Selenide. (E/T) S. A. Aliev, L. L. Korenblut, and S. S. Shalyt. *J.* 1357 (1965) [*J.* 1673 (1965)]
- ALIEV, S. A.**
Thermal Conductivity and Thermoelectric Power of Gallium Arsenide at Low Temperatures. (E) S. A. Aliev and S. S. Shalyt. *J.* 2986 (1966) [*J.* 3090 (1965)]
- AL'TSHULER, S. A.**
Nuclear Magnetic Resonance Associated with the Nuclei of Paramagnetic Atoms. (T) S. A. Al'tshuler and R. M. Mineeva. *J.* 247 (1965) [*J.* 310 (1965)]
- AMIRKHANOV, Kh. I.**
Heat Conductivity of Indium Antimonide in the Solid and Liquid State. (E) Kh. I. Amirkhanov and Ya. B. Magomedov. *J.* 506 (1965) [*J.* 637 (1965)]
- AMITIN, A. B.**
Electrical Conductivity of Single-Crystal Bismuth in the Temperature Range 90-540°K. (E/T) A. B. Amitin and Yu. Z. Kovdya. *J.* 633 (1965) [*J.* 793 (1965)]
- AMMER, S. A.**
Internal Friction and Strength of Copper Crystal Whiskers. (E) S. A. Ammer, A. T. Koslov, and V. S. Postnikov. *J.* 1806 (1966) [*J.* 2242 (1965)]
- ANDREEV, A. A.**
Influence of High Pressure on the Electrical Properties of Germanium Telluride. (E/T) A. A. Andreev, L. M. Sysoeva, and E. Ya. Lev. *J.* 520 (1965) [*J.* 652 (1965)]
- ANDREEV, A. A.**
Temperature Dependence of the Hall Effect and of the Electrical Conductivity of Germanium Telluride. (E) A. A. Andreev, L. M. Sysoeva, and E. Ya. Lev. *J.* 2068 (1966) [*J.* 2558 (1965)]
- ANDREEV, A. A.**
Hall Coefficient of Liquid Alloys of the Hg-Tl System. (E) A. A. Andreev and A. R. Regel'. *J.* 2076 (1966) [*J.* 2567 (1965)]
- ANDREEV, G. A.**
Flotation Study of the Distribution of Singly Charged Impurity Ions in the Growth of NaCl Single Crystals. (E) G. A. Andreev and B. P. Aleksandrov. *J.* 136 (1965) [*J.* 177 (1965)]
- ANDREEV, G. A.**
Influence of Impurity Anions Containing Oxygen on the Density of NaCl and KCl Single Crystals. (E) G. A. Andreev. *J.* 140 (1965) [*J.* 183 (1965)]
- ANDREEV, G. A.**
Distribution of Divalent Impurities During the Growth of NaCl Single Crystals. (E) G. A. Andreev. *J.* 1339 (1965) [*J.* 1653 (1965)]
- ANDREEV, G. A.**
Distribution of Singly-Charged Ion Impurities in the Growth of KCl and KBr Single Crystals. (E) G. A. Andreev. *J.* 1517 (1965) [*J.* 1883 (1965)]
- ANDRIANOV, D. G.**
Planar Hall Effect in Heavily Doped Germanium. (T/E) D. G. Andrianov and V. I. Fislul'. *J.* 636 (1965) [*J.* 796 (1965)]
- ANISHCHENKO, R. I.**
Statistical Model Treatment of Electron-Density Distribution and X-Ray Scattering Intensity for Atoms and Ions in a Lattice. (T) R. I. Anishchenko. *J.* 2609 (1966) [*J.* 3227 (1965)]
- ANSEL'M, A. I.**
Quantum Theory of Thermomagnetic Currents in Semiconductors and Metals. (T) A. I. Ansel'm, Yu. N. Obratsov, and R. G. Tarkhanyan. *J.* 2293 (1966) [*J.* 2837 (1965)]
- ANTIPIN, A. A.**
Electron Paramagnetic Resonance of Yb^{3+} Ions in Hexagonal ZnS . (T/E) A. A. Antipin, I. N. Kurkin, and L. Ya. Shekun. *J.* 753 (1965) [*J.* 938 (1965)]
- ANTIPIN, A. A.**
Paramagnetic Resonance of Terbium in Single Crystals of $PbMoO_4$. (E/T) A. A. Antipin, I. N. Kurkin, V. G. Stepanov, and L. Ya. Shekun. *J.* 792 (1965) [*J.* 985 (1965)]
- ANTIPIN, A. A.**
Paramagnetic Resonance of Erbium and Europium in Synthetic Single Crystals of $PbMoO_4$. (E) A. A. Antipin, A. N. Katsyayev, I. N. Kurkin, and L. Ya. Shekun. *J.* 1148 (1965) [*J.* 1425 (1965)]
- ANTIPIN, A. A.**
Paramagnetic Resonance of Trivalent Samarium in Single Crystals of CaF_2 . (E) A. A. Antipin, I. N. Kurkin, L. D. Livanova, L. Z. Potvorova, and L. Ya. Shekun. *J.* 1271 (1965) [*J.* 1575 (1965)]
- ANTIPIN, A. A.**
EPR of Nd^{3+} in $BaWO_4$. (E) A. A. Antipin, I. N. Kurkin, L. I. Potkin, M. I. Samoilovich, and L. Ya. Shekun. *J.* 2508 (1966) [*J.* 3105 (1965)]
- ANTIPIN, A. A.**
EPR Study of Tetragonal Sm^{3+} Centers in Single Crystals of $CaWO_4$. (E) A. A. Antipin, I. N. Kurkin, L. Z. Potvorova, and L. Ya. Shekun. *J.* 2596 (1966) [*J.* 3209 (1965)]
- ANTIPIN, A. A.**
Observation of Paramagnetic Resonance of Dy^{3+} Ions in $CaWO_4$ Single Crystals. (E) A. A. Antipin, I. N. Kurkin, L. Z. Potvorova, and L. Ya. Shekun. *J.* 2979 (1966) [*J.* 3685 (1965)]
- ANTIPOVA-KARATAEVA, I. I.**
Spectra of Trivalent Chromium Complexes $AlCl_3 \cdot 6H_2O$ Crystals. (E) I. I. Antipova-Karataeva, B. N. Grechushnikov, V. F. Koryagina, and Yu. I. Katsenok. *J.* 2192 (1966) [*J.* 2712 (1965)]
- AREF'EV, I. M.**
The Temperature Dependence of the Low-Frequency Raman-Scattering Spectrum of KH_2PO_4 and $NH_4H_2PO_4$ Crystals. (T/E) I. M. Aref'ev and P. A. Bazhulin. *J.* 326 (1965) [*J.* 407 (1965)]
- AREF'EV, I. M.**
Long-Wave Infrared Transmission Spectra of KH_2PO_4 . (E) I. M. Aref'ev, P. A. Bazhulin, and T. V. Mikhail'tseva. *J.* 1948 (1966) [*J.* 2413 (1965)]
- AREF'EV, I. M.**
Long-Wavelength Infrared Transmission Spectra of $NH_4H_2PO_4$. (E) I. M. Aref'ev, P. A. Bazhulin, and I. S. Zheludev. *J.* 2290 (1966) [*J.* 2834 (1965)]
- ARESEN'EVA-GEL', A. N.**
Photomission of Electrons from p-Type GaAs. (E/T) A. N. Aresen'eva-Gel' and A. A. Kask. *J.* 952 (1965) [*J.* 1187 (1965)]
- ARKHANGEL'SKAYA, V. A.**
Additively Reduced Divalent Rare Earths in Fluorite Crystals. (E) V. A. Arkhangel'skaya, B. I. Maksakov, and P. P. Feofilov. *J.* 1827 (1966) [*J.* 2260 (1965)]
- ARKHANGEL'SKAYA, V. A.**
Influence of Oxygen on the Ionic Conductivity of Fluorite Crystals. (E) V. A. Arkhangel'skaya, T. I. Nikitinskaya, and M. S. Tyutin. *J.* 2976 (1966) [*J.* 3682 (1965)]
- ARONOV, A. G.**
Line Width of a Semiconductor Laser. (T/E) G. E. Pikus and A. G. Aronov. *J.* 2863 (1966) [*J.* 3548 (1965)]
- ARTEM'eva, M. V.**
Weak Ferromagnetism of $CaMnO_3$. (E) V. M. Yudin, A. I. Gavrilishina, M. V. Artem'eva, and M. F. Bryzhina. *J.* 1856 (1966) [*J.* 2292 (1965)]

- ASHMYANSKII, R. A.
Some Peculiarities of the Focusing of Atomic Collisions in Cathode Sputtering from Tungsten and Molybdenum Single Crystals. (E) R. A. Ashmyanskii, M. B. Ben'yaminovich, and V. I. Vekaler. *J.* 1314 (1965) [7, 1623 (1965)]
- ASKEROV, B. M.
Singularities of the Conduction-Electron Spectrum in Semiconductors having Ionic Structures Located in a Strong Magnetic Field. (T) B. M. Askerov and F. M. Gashimzade. *J.* 894 (1965) [7, 1114 (1965)]
- ASKEROV, B. M.
Interband Faraday Effect in Semiconductors in Strong Crossed Electric and Magnetic Fields. (T) B. M. Askerov and F. M. Gashimzade. *J.* 2926 (1966) [7, 3631 (1965)]
- ASTAF'EV, N. I.
Infrared Absorption Spectra of Perovskite-Type Ferroelectric Crystals. (E) A. I. Stekhanov, A. A. Karamyan, and N. I. Astaf'ev. *J.* 119 (1965) [7, 157 (1965)]
- ASTROV, D. N.
Amplification of Longitudinal Ultrasonic Waves in a Single Crystal of CdS. (E/T) D. N. Astrov, V. I. Baibakov, G. S. Pado, and L. A. Sysoev. *J.* 524 (1965) [7, 655 (1965)]
- ATSARKIN, V. A.
Electron Paramagnetic Resonance of Trivalent Ions of Gadolinium and Iron in Synthetic Calcite. (E) V. A. Atsarkin, V. G. Lushnikov, and L. P. Sorokina. *J.* 1912 (1966) [7, 2367 (1965)]
- ATSARKIN, V. A.
Electron Paramagnetic Resonance and Spin-Lattice Relaxation of Nonequivalent Systems of Chromium Ions in $ZnWO_4$ Single Crystals. (E/T) V. A. Atsarkin, L. P. Litovkina, and M. L. Mel'man. *J.* 2502 (1966) [7, 3099 (1965)]
- AVDONIN, V. P.
Appearance of an EMF on the Annealing of NaCl:Ag Single Crystals Irradiated with Beta-Particles. (E) V. P. Avdonin, I. A. Vasil'ev, G. A. Mikhail'chenko, B. T. Plachenov, and V. A. Shibaev. *J.* 2514 (1966) [7, 3110 (1965)]
- AVGUSTINNIK, A. I.
Electrical Properties of Titanium Carbide. (E) O. A. Golikova, A. I. Avgustinik, G. M. Klimashin, and L. V. Kozlovskii. *J.* 2317 (1966) [7, 2869 (1965)]
- AVGUSTINNIK, A. I.
Electrical Properties of Carbides of Transition-Metals in Group IV. (E) O. A. Golikova, A. I. Avgustinik, G. M. Klimashin, L. V. Kozlovskii, S. S. Ordan'yan, and V. A. Snetkova. *J.* 2995 (1966) [7, 3698 (1965)]
- AVVAKUMOV, E. G.
Determination of Distribution Coefficients from Data on Directional Crystallization. (T) A. N. Kirgintsev and E. G. Avvakumov. *J.* 1279 (1965) [7, 1583 (1965)]
- AZIZOV, V. V.
Emission and Adsorption Characteristics of Faces of a Tungsten Single Crystal. (E) U. V. Azizov and G. N. Shuppe. *J.* 1591 (1966) [7, 1970 (1965)]
- AZIZOV, V. V.
Emission Properties of a Molybdenum Single Crystal. (E) U. A. Azizov, U. V. Vakhidov, V. M. Sulmanov, B. N. Sheinberg, and G. N. Shuppe. *J.* 2232 (1966) [7, 2759 (1965)]
- BABUSHKINA, N. A.
Investigation of the Galvanomagnetic Properties of Holmium. (E) N. A. Babushkina. *J.* 2048 (1966) [7, 2540 (1965)]
- BABUSHKINA, N. A.
Investigation of the Hall Effect in Gadolinium and Terbium. (E) N. A. Babushkina. *J.* 2450 (1966) [7, 3028 (1965)]
- BABUSHKINA, T. A.
Investigation of the Peculiarities of Phase Transitions in the $Cl_2(NO_2)_2$ Molecular Crystal by Nuclear Quadrupole Resonance. (E) T. A. Babushkina, V. I. Robas, I. A. Safin, and G. K. Semin. *J.* 737 (1965) [7, 924 (1965)]
- BABUSHKINA, T. A.
On Phase Transition in Iodobenzene. (E) T. A. Babushkina. *J.* 2766 (1966) [7, 3428 (1965)]
- BAEV, I. A.
An Investigation of the Distribution of Inhomogeneous Regions in Semiconductors. (E) I. A. Baev and E. G. Valyashko. *J.* 2093 (1966) [7, 2535 (1965)]
- BAEV, I. A.
Negative Resistance and the Generation of Oscillations at Point Contacts in p-Type InSb. (E) I. A. Baev. *J.* 2100 (1966) [7, 2594 (1965)]
- BAIBAKOV, V. I.
Amplification of Longitudinal Ultrasonic Waves in a Single Crystal of CdS. (E/T) D. N. Astrov, V. I. Baibakov, G. S. Pado, and L. A. Sysoev. *J.* 524 (1965) [7, 655 (1965)]
- BAI-SHI, U.
The Mössbauer Effect in Alkali-Iron-Silicate Glasses. (E) A. A. Belyustin, Yu. M. Ostanevich, A. M. Pisarevskii, S. B. Tomilov, U. Bai-shi, and L. Cher. *J.* 1163 (1965) [7, 1447 (1965)]
- BAKANOVA, A. A.
Compression of Alkali Metals by Strong Shock Waves. (E/T) A. A. Bakanova, I. P. Dudoladov, and R. F. Trunin. *J.* 1307 (1965) [7, 1615 (1965)]
- BAKLANOV, E. V.
Dielectric Constant in a Two-Band Model of a Semimetal. (T) E. V. Baklanov and A. V. Chaplik. *J.* 2240 (1966) [7, 2768 (1965)]
- BAKRADZE, R. V.
Coefficients of Linear Expansion of Sodium Iodide Single Crystals. (E) R. V. Bakradze, M. B. Kutsyovich, and Yu. I. Shumakov. *J.* 2543 (1966) [7, 3138 (1965)]
- BALABANOV, E. I.
A Study of Carrier Mobility in Organic Materials. (T) E. I. Frankovich and E. I. Balabanov. *J.* 710 (1965)
- BALABANOV, E. I.
Investigation of the Motion of Carriers in Organic Substances. (E/T) E. I. Frankovich and E. I. Balabanov. *J.* 1352 (1965) [7, 1667 (1965)]
- BALABANOV, S.
Method of Measuring the Contact Potential Difference and its Change Under the Influence of Light in Single-Crystal Cadmium Sulfide. (E) G. Nadzhakov and S. Balabanov. *J.* 957 (1965) [7, 1193 (1965)]
- BARANOV, A. V.
Investigation of Impulse Breakdown in Solid Dielectrics. (E) A. V. Baranov, L. G. Nekrasova, and N. I. Dimova. *J.* 2030 (1966) [7, 2523 (1965)]
- BAR'YAKHTAR, V. G.
The Role of Surface Currents in Transport Processes in a Magnetic Field. (T) S. V. Peletminskii and V. G. Bar'yakhtar. *J.* 356 (1965) [7, 446 (1965)]
- BAR'YAKHTAR, V. G.
Slow Neutron Scattering in Antiferromagnets having Weak Ferromagnetism. (E) V. G. Bar'yakhtar and A. G. Kvirikadze. *J.* 891 (1965) [7, 1110 (1965)]
- BAR'YAKHTAR, V. G.
On the Instability of Electric Current in Semiconductors Due to Spin-Wave Excitation. (T) Z. Z. Makhmudov and V. G. Bar'yakhtar. *J.* 1677 (1966) [7, 2082 (1965)]
- BASOV, L. L.
Nature of Low Photoconductivity in Zinc Oxide. (E) V. L. Rapoport and L. L. Basov. *J.* 902 (1965) [7, 1124 (1965)]
- BASOV, N. G.
Synchronization of Oscillations in a Semiconducting Laser Having Several p-n Junctions. (T) N. G. Basov, E. M. Belenov, and V. S. Lotokhov. *J.* 275 (1965) [7, 337 (1965)]
- BASOV, N. G.
Semiconductor Quantum Generator Based on a p-n Junction in a $GaAs_{1-x}P_x$ Compound. (E) N. G. Basov, P. G. Eliseev, V. V. Nikitin, A. V. Lishina, V. N. Maslov, and A. Ya. Nabel'skii. *J.* 1539 (1965) [7, 1902 (1965)]
- BASOV, N. G.
 $GaAs$ p-n Junction Laser with Nonuniform Distribution of Injection Current. (E) N. G. Basov, Yu. P. Zakharov, V. V. Nikitin, and A. A. Sheronov. *J.* 2532 (1966) [7, 3128 (1965)]

- BAISOV, N. G.**
Generation of Short-Wavelength Radiation and Lifetime with Respect to Spontaneous Emission in Semiconductors. (T) N. G. Basov, O. V. Bogdanovich, and Yu. M. Popov. *J.* 2655 (1966) [*J.* 5289 (1965)]
- BAISOV, N. G.**
Interaction of Optically Coupled GaAs p-n Junction Lasers. (E) N. G. Basov, Yu. P. Zakharov, V. V. Nikitina, and A. A. Sheronov. *J.* 2798 (1966) [*J.* 3460 (1965)]
- BAISOV, N. G.**
Laser Action in CdS Induced by Two-Photon Optical Excitation from a Ruby Laser. (E) N. G. Basov, A. Z. Grasyuk, I. G. Zebarev, and V. A. Kabilin. *J.* 2932 (1966) [*J.* 3639 (1965)]
- BASS, F. G.**
Theory of Sound Amplification in Piezoelectrics by a Beam of Charged Particles. (T) F. G. Bass, S. A. Gredekal, and M. I. Kaganov. *J.* 2498 (1966) [*J.* 3090 (1965)]
- BATSANOV, S. S.**
Permittivities and Atomic Charges of Rare-Earth Metal Oxides. (E) S. S. Batanov and E. V. Dulepov. *J.* 995 (1965) [*J.* 1239 (1965)]
- BATURINA, E. A.**
Nuclear-Magnetic-Resonance Investigations of the Trifluorides of Rare-Earth Elements of the Cerium Group. (E) E. A. Baturina, Yu. A. Luk'yanychev, and O. T. Malyukhov. *J.* 1527 (1965) [*J.* 1892 (1965)]
- BAUKIN, I. S.**
Concentration Dependence of the Forbidden-Band Width in Alloys of InSb with GaSb. (E) I. S. Baukin, V. I. Ivanov-Omskii, and B. T. Kolomiets. *J.* 1019 (1965) [*J.* 1261 (1965)]
- BAZHULIN, P. A.**
The "Small-Frequency" Raman Scattering Spectrum of Crystalline Stilbene and Toluene at Various Temperatures. (E) P. A. Bazhulin and A. A. Rakhimov. *J.* 69 (1965) [*J.* 94 (1965)]
- BAZHULIN, P. A.**
The Temperature Dependence of the Low-Frequency Raman-Scattering Spectrum of KH_2PO_4 and $\text{NH}_4\text{H}_2\text{PO}_4$ Crystals. (T/E) I. M. Aref'ev and P. A. Bazhulin. *J.* 326 (1965) [*J.* 407 (1965)]
- BAZHULIN, P. A.**
Investigation of the Low-Frequency Raman Scattering Spectra of Some Organic Crystals at Various Temperatures. (E) A. P. Bazhulin and A. A. Rakhimov. *J.* 1681 (1966) [*J.* 2088 (1965)]
- BAZHULIN, P. A.**
Long-Wave Infrared Transmission Spectra of KH_2PO_4 . (E) I. M. Aref'ev, P. A. Bazhulin, and T. V. Mikhail'seva. *J.* 1948 (1966) [*J.* 2413 (1965)]
- BAZHULIN, P. A.**
Long-Wavelength Infrared Transmission Spectra of $\text{NH}_4\text{H}_2\text{PO}_4$. (E) I. M. Aref'ev, P. A. Bazhulin, and I. S. Zheludev. *J.* 2290 (1966) [*J.* 2834 (1965)]
- BEKKER, F. F.**
Transverse Resistance and the Hall Effect in p-Type Germanium in Strong Magnetic Fields in the Temperature Range 78-300°K. (E) E. A. Sviatova, F. F. Bekker, and Li Pin-tsung. *J.* 2328 (1966) [*J.* 2871 (1965)]
- BEKKER, Ya. M.**
Some Features of the Thermal Resistance of Ferrites. (E/T) Ya. M. Bekker. *J.* 1940 (1965) [*J.* 1545 (1965)]
- BELENOV, E. M.**
Synchronization of Oscillations in a Semiconducting Laser Having Several p-n Junctions. (T) N. G. Basov, E. M. Belenov, and V. S. Lotokhov. *J.* 275 (1965) [*J.* 337 (1965)]
- BELLE, M. L.**
Optical Reflection of PbSe, PbTe, and Some of Their Solid Solutions. (E/T) M. L. Belle. *J.* 480 (1965) [*J.* 606 (1965)]
- BELOV, K. P.**
Electrical Resistance Anomaly in the Region of the Compensation Transition in the Ferrite $\text{NiFe}_{1-x}\text{V}_x\text{O}_4$. (E/T) K. P. Belov, A. N. Goryaga, and N. V. Volkova. *J.* 378 (1965) [*J.* 474 (1965)]
- BELOV, K. P.**
The Electrical Properties of Yttrium Ferrites Having a Garnet Structure. (E/T) K. P. Belov, M. A. Zaitseva, A. N. Kadamtsava, and T. L. Ovchinnikova. *J.* 381 (1965) [*J.* 477 (1965)]
- BELOV, K. P.**
Thermomagnetic and Galvanomagnetic Effects in Manganese Ferrites. (E) K. P. Belov, E. V. Talalova, and T. V. Kudryavtseva. *J.* 789 (1965) [*J.* 981 (1965)]
- BELOZERSKII, G. N.**
Mössbauer Effect in Indium Antimonide. (E/T) G. N. Belozerskii, I. A. Gusev, A. N. Murin, and Yu. A. Nemilov. *J.* 1012 (1965) [*J.* 1254 (1965)]
- BELOZERSKII, G. N.**
Mössbauer Effect in InP and GaAs. (E) G. N. Belozerskii, Yu. A. Nemilov, S. B. Tomilov, and A. V. Shvedchikov. *J.* 2908 (1966) [*J.* 3607 (1965)]
- BELYAEV, A. D.**
Temperature Dependence of the Cross Section for the Capture of Holes by Impurity Centers in Germanium. (E/T) A. D. Belyaev and S. S. Malogolovets. *J.* 1529 (1965) [*J.* 1894 (1965)]
- BELYAYSKAYA, L. M.**
Some Features of the Magnetoresistance of Alkali Silicate Glasses After γ Irradiation and Heat Treatment. (E) L. M. Belyayskaya and A. I. Siryak. *J.* 2764 (1966) [*J.* 3427 (1965)]
- BELYUSTIN, A. A.**
The Mössbauer Effect in Alkali-Iron-Silicate Glasses. (E) A. A. Belyustin, Yu. M. Ostanevich, A. M. Pisarevskii, S. B. Tomilov, U. Dai-shi, and L. Cher. *J.* 1163 (1965) [*J.* 1447 (1965)]
- BENGUS, V. Z.**
Role of the Process of Dislocation Generation in the Twinning of Calcite. (T/E) S. N. Konnik, V. Z. Bengus, and V. I. Startsev. *J.* 96 (1965) [*J.* 127 (1965)]
- BENIEVA, T. Ya.**
Effect of Structure on Young's Modulus and on the Damping Decrease of Aluminum. (E) T. Ya. Benieva, L. N. Larikov, and I. G. Polotskii. *J.* 1839 (1965) [*J.* 2273 (1965)]
- BEN'YAMINOVICH, M. B.**
Some Peculiarities of the Focusing of Atomic Collisions in Cathode Sputtering from Tungsten and Molybdenum Single Crystals. (E) R. A. Ashmanskii, M. B. Ben'yaminovich, and V. I. Vekaler. *J.* 1314 (1965) [*J.* 1623 (1965)]
- BERCHA, D. M.**
Piezoresistance of Sb_2Te_3 . (T/E) D. M. Bercha, Z. V. Pankovitch, A. V. Savitskii, and K. D. Torstnyuk. *J.* 1968 (1966) [*J.* 2437 (1965)]
- BEREZHNOL, A. A.**
Nature of Phase Transformations in Solid Solutions of BiFeO_3 with $\text{PbFe}_{1-x}\text{Nb}_x\text{O}_3$. (E) N. N. Krainik, N. P. Khuchba, A. A. Berezhol, and A. G. Tulov. *J.* 100 (1965) [*J.* 132 (1965)]
- BERKELEV, A. D.**
Investigation of the Nonequilibrium Carrier Lifetime and Noise in p-Type InSb. (E/T) A. D. Berkelev, A. S. Volkov, V. V. Galvanov, and D. N. Nasledov. *J.* 1543 (1965) [*J.* 1908 (1965)]
- BERKELEV, A. D.**
The Effect of Deep Acceptor Levels on the Electrical Properties of p-InSb. (E) A. D. Berkelev, V. V. Galvanov, and D. N. Nasledov. *J.* 2980 (1966) [*J.* 3685 (1965)]
- BERKOVSKII, F. M.**
Recombination Radiation in GaAs Under the Action of Individual α -Particles. (E) F. M. Berkovskii. *J.* 1523 (1965) [*J.* 1899 (1965)]
- BERSUKER, I. B.**
The Spin-Lattice Relaxation Mechanism in Systems having Inversion Splitting. (T/E) I. B. Bersuker and B. G. Vekhter. *J.* 986 (1965) [*J.* 1231 (1965)]
- BERSUKER, I. B.**
Anomalies in the Heat Capacity and Heat Conduction of Complex Crystals. (T) B. G. Vekhter and I. B. Bersuker. *J.* 1265 (1965) [*J.* 1509 (1965)]

- BERTENEV, V. M.
X-Ray Spectroscopic Investigation of the Valence State of Samarium in the Metal and in Its Monosulfide. (E) S. M. Blokhin, E. E. Vainshteyn, and V. M. Bertenev. *J.* 2870 (1966) [*J.* 3558 (1965)]
- BERULAVA, B. G.
Relaxation Processes in Paramagnetic Resonance of U^{3+} and Tb^{3+} in CaF_2 . (E) B. G. Berulava, T. I. Sanadze, and O. G. Khakhashvili. *J.* 508 (1965) [*J.* 640 (1965)]
- BEZNOZDREV, V. N.
Ferroelectricity and Magnetism in Ferroelectric-Ferromagnetic Systems. (E) Yu. Ya. Tomashpol'skiy, Yu. N. Venevitsay, and V. N. Beznozdrev. *J.* 2235 (1966) [*J.* 2763 (1965)]
- BEZUGLIY, P. A.
Study of Magnetoacoustic Effects in Gallium at 210 Mc. (E) P. A. Bezugliy, A. A. Galkin, and S. E. Zhevago. *J.* 383 (1965) [*J.* 480 (1965)]
- BIR, G. L.
Piezoresistivity in Partially Reduced Rutile in the Temperature Range from 78 to 500°K. (E) G. L. Bir, V. N. Bogomolov, E. V. Krivitskiy, and T. E. Sulystatskaya. *J.* 2414 (1966) [*J.* 2978 (1965)]
- BIR, G. L.
Forbidden Fine-Structure Transitions of the Gd^{3+} Ion in a CaO_2 Crystal. (T/E) G. L. Bir and I. V. Vinokurov. *J.* 2790 (1966) [*J.* 3392 (1965)]
- BLINOV, L. M.
Cross Sections for the Capture of Holes by Mercury Ions in Germanium. (E) L. M. Blinov. *J.* 738 (1965) [*J.* 925 (1965)]
- BLISTANOV, A. A.
Kinetics of Dislocation Pinning by Point Defects in Ionic Crystals. (E) A. A. Blistanov, I. V. Troitskiy, and M. P. Shashol'skaya. *J.* 1492 (1965) [*J.* 1856 (1965)]
- BLISTANOV, A. A.
Influence of High-Frequency Vibrations on the Recovery of the Internal Friction in LiF Single Crystals. (E) A. A. Blistanov and M. P. Shashol'skaya. *J.* 2378 (1966) [*J.* 2930 (1965)]
- BLOKHIN, S. M.
X-Ray Spectroscopic Investigation of the Valence State of Samarium in the Metal and in Its Monosulfide. (E) S. M. Blokhin, E. E. Vainshteyn, and V. M. Bertenev. *J.* 2870 (1966) [*J.* 3558 (1965)]
- BOGACHEV, G. A.
Relaxation of Rare-Earth Ions. (T/E) G. A. Bogachev. *J.* 243 (1965) [*J.* 306 (1965)]
- BOGATOV, P. N.
Some Regularities in the Bulk Condensation of Metals and Alloys. (E) L. S. Palatnik, G. V. Fedorov, and P. N. Bogatov. *J.* 2141 (1966) [*J.* 2648 (1965)]
- BOGDANKEVICH, O. V.
Generation of Short-Wavelength Radiation and Lifetime with Respect to Spontaneous Emission in Semiconductors. (T) N. G. Basov, O. V. Bogdankevich, and Yu. M. Popov. *J.* 2655 (1966) [*J.* 3389 (1965)]
- BOGOMOLOV, V. N.
Piezoresistivity in Partially Reduced Rutile in the Temperature Range from 78 to 500°K. (E) G. L. Bir, V. N. Bogomolov, E. V. Krivitskiy, and T. E. Sulystatskaya. *J.* 2414 (1966) [*J.* 2978 (1965)]
- BOGORODITSKIY, N. P.
Electrical Anisotropy in Polarized Ceramic Materials (Electrets). (E/T) N. P. Bogoroditskiy, V. N. Rudakov, and D. A. Taisova. *J.* 529 (1966) [*J.* 659 (1965)]
- BOICHENKO, B. L.
Temperature Dependence of the Conductivity of Silicon in Strong Electric Fields. (E) B. L. Boichenko and V. M. Vasyatkiy. *J.* 1631 (1966) [*J.* 2021 (1965)]
- BOIKO, I. I.
Formation of Nonequilibrium Carriers when a Current Passes Through Elastically Deformed Germanium. (E) I. I. Boiko, I. P. Zhad'ko, E. I. Raabha, and V. A. Romanov. *J.* 1806 (1966) [*J.* 2239 (1965)]
- BOKOV, V. A.
The Moseley Effect in Sn^{119} Nuclei in Ferroelectric Phase Transitions in the Solid Solution $Ba(Ti_{1-x}Sn_x)_2O_6$. (E) V. A. Bokov, V. P. Romanov, and V. V. Chekin. *J.* 1521 (1965) [*J.* 1886 (1965)]
- BOKOV, V. A.
Structure and Magnetic Properties of $TiMnF_3$. (E) S. A. Kizhaev, A. G. Tutov, and V. A. Bokov. *J.* 2325 (1966) [*J.* 2865 (1965)]
- BOKOV, V. A.
Structure and Magnetic Properties of $BiMnO_3$. (E) V. A. Bokov, I. E. Myl'skova, S. A. Kizhaev, M. P. Bryukhina, and N. A. Grigoryan. *J.* 2993 (1966) [*J.* 3695 (1965)]
- BOKSHTEIN, S. Z.
Characteristics of Plastic Deformation in Filamentary Crystals of Copper and Cobalt. (E) S. Z. Bokshstein and I. L. Svedlov. *J.* 2697 (1966) [*J.* 3348 (1965)]
- BOL'SHUTKIN, D. N.
Hardness of Crystalline Methane. (E/T) D. N. Bol'shutkin, A. V. Leon'teva, V. G. Snigirev, and V. I. Startsev. *J.* 2119 (1966) [*J.* 2607 (1965)]
- BOL'SHUTKIN, D. N.
Mechanical Properties of Polycrystalline Ammonia Under Uniaxial Compression. (E) D. N. Bol'shutkin, A. I. Prokhorov, T. V. Sil'vestova, and V. I. Startsev. *J.* 2255 (1966) [*J.* 2789 (1965)]
- BOLTAKS, B. I.
Thermal Conversion of Gallium Arsenide. (E) B. I. Boltaks and F. S. Shishiyama. *J.* 822 (1965) [*J.* 1021 (1965)]
- BONCH-BRUEVICH, V. L.
The Formation of Domains in Semiconductors with Negative Differential Resistance. (T) V. L. Bonch-Bruевич and Sh. M. Kagan. *J.* 15 (1965) [*J.* 23 (1965)]
- BONCH-BRUEVICH, V. L.
The Possibility of Recombination Instability in Semiconductors. (T) V. L. Bonch-Bruевич and S. G. Kalashnikov. *J.* 599 (1965) [*J.* 750 (1965)]
- BONCH-BRUEVICH, V. L.
Concerning the Theory of Generation-Recombination Noise in Semiconductors. (T) V. L. Bonch-Bruевич. *J.* 1728 (1966) [*J.* 2147 (1965)]
- BONCH-BRUEVICH, V. L.
The Theory of Radiative Recombination via Impurity Centers in Homogeneous Semiconductors. (T) V. L. Bonch-Bruевич and A. A. Drugova. *J.* 2491 (1966) [*J.* 3083 (1965)]
- BORON'KO, Yu. K.
Optical Properties of CaF_2-Nd^{3+} Crystals. (E/T) Yu. K. Boron'ko, L. V. Krotova, V. V. Oelko, V. T. Udovenchik, and M. M. Fursikov. *J.* 1486 (1965) [*J.* 1800 (1965)]
- BORZHKOVSKAYA, V. M.
Investigation of Slip Lines in LiF Single Crystals Using Statistical Distribution Graphs of Distances Between Etch Pits. (E/T) V. M. Borzhkovskaya, A. I. Landau, and V. B. Parilskiy. *J.* 1719 (1966) [*J.* 2136 (1965)]
- BORZYAK, P. G.
Influence of Light on the Surface Conductivity of Germanium having a Clean Surface. (E) P. G. Borzyak, G. A. Katrich, and O. G. Sarbei. *J.* 2265 (1966) [*J.* 2803 (1965)]
- BREDOV, M. M.
Investigation of the Phonon Spectrum of Aluminum. (E) M. M. Bredov, B. A. Kolov, N. M. Olsheva, and A. L. Shakh-Budagov. *J.* 1136 (1966) [*J.* 1413 (1965)]
- BRESLER, M. S.
The Problem of the Influence of Electron Spin on the Shubnikov-De Haas Oscillations in n-Type InSb. (T/E) M. S. Bresler, R. V. Parfen'ev, and S. S. Shalyt. *J.* 1025 (1965) [*J.* 1266 (1965)]
- BRITSYN, K. I.
Influence of an Electric Field on the Position of the Optical Absorption "Edge" in Polycrystalline Films of CdS. (E/T) K. I. Britsyn, B. A. Volkov, V. V. Matveev, and A. A. Smirnov. *J.* 2044 (1966) [*J.* 2536 (1965)]

- BRODIN, M. S.**
Optical Absorption and Structure of Energy Bands in $\text{CdSe}_x\text{-CdSe}_{1-x}$ Crystals. (E/T) M. S. Brodin, M. V. Kurik, and S. P. Yurtsenyuk. *J.* 2516 (1966) [7, 3112 (1965)]
- BROFIN, M. B.**
The Influence of Oxide Films on the Sublimation Kinetics. (T/E) M. B. Brofin, A. A. Zhukovitskii, and V. A. Marichev. *J.* 2107 (1966) [7, 2603 (1965)]
- BRONKEVICH, Yu. S.**
Experimental Study of Low-Frequency Oscillations in the Region of Ferrite Instability Under Parallel Pumping. (E) N. K. Dovchenko and Yu. S. Bronkevich. *J.* 2754 (1966) [7, 3417 (1965)]
- BRONSTEIN, I. M.**
Study of Secondary Electron Emission from Solids with Obliquely Incident Primary Electrons. (E) I. M. Bronshteyn and S. S. Denisov. *J.* 1484 (1965) [7, 1846 (1965)]
- BRONSTEIN, I. M.**
Energy Distribution of Inelastically Scattered Electrons in Solids for Oblique Incidence of the Primary Beam. (E) I. M. Bronshteyn and S. S. Denisov. *J.* 1819 (1966) [7, 2352 (1965)]
- BROUDE, V. L.**
Electronic-Vibrational Luminescence of Large-Radius Impurity Centers. (T/E) V. L. Broude, A. I. Vlasenko, É. I. Rasbha, and E. F. Sheka. *J.* 1686 (1966) [7, 2094 (1965)]
- BRYZHINA, M. F.**
Magnetic Spectra of Lithium-Zinc Ferrites. (E) L. A. Davydov, S. A. Poltynnikov, and M. F. Bryzhina. *J.* 596 (1965) [7, 746 (1965)]
- BRYZHINA, M. F.**
Weak Ferromagnetism of CaMnO_2 . (E) V. M. Yudin, A. I. Gavrilashina, M. V. Artem'eva, and M. F. Bryzhina. *J.* 1856 (1966) [7, 2292 (1965)]
- BRYZHINA, M. F.**
Structure and Magnetic Properties of BaMnO_2 . (E) V. A. Bokov, I. E. Myl'nikova, S. A. Kizhaev, M. F. Bryzhina, and N. A. Grigoryan. *J.* 2993 (1966) [7, 3695 (1965)]
- BUSHVILI, L. L.**
Statistical Theory of Nuclear Spin Diffusion. (T) L. L. Bushvili and D. N. Zubarev. *J.* 580 (1965) [7, 722 (1965)]
- BUSHVILI, L. L.**
On the Nuclear Acoustic Resonance in Ferro- and Antiferromagnets. (T) L. L. Bushvili and N. P. Giorgadze. *J.* 614 (1966) [7, 769 (1965)]
- BUSHVILI, L. L.**
Theory of Nuclear Spin Diffusion in Ferromagnets. (T) L. L. Bushvili. *J.* 1505 (1965) [7, 1871 (1965)]
- BUSHVILI, L. L.**
Theory of Nuclear Magnetic Resonance in Ferromagnets. (T) L. L. Bushvili, N. P. Giorgadze, and G. A. Kharadze. *J.* 2258 (1966) [7, 2793 (1965)]
- BUSHVILI, L. L.**
Acoustical Resonance in Magnetic Substances Having a Simple Helicoidal Structure. (T) L. L. Bushvili, N. P. Giorgadze, and G. A. Kharadze. *J.* 2956 (1966) [7, 3662 (1965)]
- BULATOV, A. S.**
Texture in Layers of Gases Condensed on a Cold Substrate. (E) A. S. Bulatov, V. S. Kogan, and L. F. Yakimenko. *J.* 679 (1965) [7, 852 (1965)]
- BULGAKOV, S. S.**
Action of Low-Energy Nitrogen Ions on the Surface of Germanium. (E) V. P. Synorov, S. S. Bulgakov, and V. V. Stepanov. *J.* 1108 (1965) [7, 1375 (1965)]
- BULYANITS, D. S.**
Selection Rules for Optical Transitions on Exciton Levels. (T) D. S. Bulyanitsa. *J.* 1008 (1965) [7, 1250 (1965)]
- BURYAKOVSKII, G. Yu.**
Theory of Laser Emission via Band-to-Band Transitions in Impurity Semiconductors. (T) G. Yu. Buryakovskii, V. L. Vinetskii, and V. S. Mashkevich. *J.* 827 (1965) [7, 1028 (1965)]
- BUSHNEV, L. S.**
Concentration of Vacancies at Antiphase Boundaries in Ordered Alloys. (T) L. S. Bushnev. *J.* 2084 (1966) [7, 2575 (1965)]
- BUTYAGIN, P. Yu.**
EPR Spectra of Free Radicals Arising in the Mechanical Breakdown of Polymers. Vulcanized Rubbers. (E) P. Yu. Butyagin, V. F. Drosdovskii, D. R. Razgon, and I. V. Kolbasov. *J.* 757 (1965) [7, 941 (1965)]
- BYKOV, G. A.**
Mössbauer Spectra in the Presence of Electric Quadrupole and Magnetic Interactions. (T/E) G. A. Bykov, G. K. Ryasnyin, and V. S. Spinel'. *J.* 1343 (1965) [7, 1657 (1965)]
- BYKOVA, T. T.**
EPR Study of Silicon and Lead Sulfide Surfaces. (E) T. T. Bykova and I. V. Vinokurov. *J.* 2103 (1966) [7, 2597 (1965)]
- CHAIKOVSKII, I. A.**
Generation-Recombination Noise in a Magnetic Field. (T) V. A. Kovarskii and I. A. Chaikovskii. *J.* 2013 (1966) [7, 2499 (1965)]
- CHAIKOVSKII, I. A.**
Recombination Relaxation in Quantizing Magnetic Fields. (T) V. A. Kovarskii and I. A. Chaikovskii. *J.* 2018 (1966) [7, 2505 (1965)]
- CHALAYA, V. G.**
Determination of the Energy of an Electron-Hole Pair and of the Absolute Quantum Yield in the X-Ray Induced Conductivity of CdS and CdSe Single Crystals. (E) S. V. Svechnikov and V. G. Chalaya. *J.* 2750 (1966) [7, 3413 (1965)]
- CHALIKYAN, G. A.**
Optical Absorption in GaP Accompanied by the Formation of Excitons. (E/T) V. K. Subashiev and G. A. Chalikyan. *J.* 993 (1965) [7, 1237 (1965)]
- CHAN VAN-KUIN'**
Investigation of Surface Scattering of Charge Carriers by the Hall Current Method. (T/E) V. N. Dobrovolskii and Chan Van-Kuin'. *J.* 647 (1965) [7, 811 (1965)]
- CHAPLIK, A. V.**
Dielectric Constant in a Two-Band Model of a Semimetal. (T) E. V. Baklanov and A. V. Chaplik. *J.* 2240 (1966) [7, 2768 (1965)]
- CHAPPIN, V. A.**
Impact Ionization in Germanium Doped with Zinc. (E/T) V. A. Chapin. *J.* 403 (1965) [7, 506 (1965)]
- CHASHCHIN, S. P.**
Growth and Electrical Properties of Epitaxial Layers p-Type Gallium Phosphide. (E) Zh. I. Alferov, V. I. Korol'kov, M. K. Trukan, and S. P. Chashchin. *J.* 1915 (1966) [7, 2370 (1965)]
- CHEBAN, A. G.**
Thermal Ionization of Impurity Centers in the Presence of an External Electric Field. (T) A. G. Cheban. *J.* 1054 (1965) [7, 1303 (1965)]
- CHEBAN, A. G.**
Thermal Ionization of Small Traps in a Cubic Piezoelectric. (T) E. P. Pokatkov, A. G. Cheban, and M. M. Rusanov. *J.* 1794 (1966) [7, 2228 (1965)]
- CHEBAN, A. G.**
Theory of Thermal Ionization of Impurity Centers. (T) A. G. Cheban and P. K. Katana. *J.* 2213 (1966) [7, 2735 (1965)]
- CHEKIN, V. V.**
The Mössbauer Effect in Sn^{119} Nuclei in Ferroelectric Phase Transitions in the Solid Solution $\text{Ba}(\text{Tl}_{1-x}\text{Sn}_x)_2\text{O}_7$. (E) V. A. Bokov, V. P. Romanov, and V. V. Chekin. *J.* 1521 (1965) [7, 1886 (1965)]
- CHER, L.**
The Mössbauer Effect in Alkali-Iron-Silicate Glasses. (E) A. A. Belyustina, Yu. M. Ostenevich, A. M. Pisarevskii, S. B. Tomilov, U. Bal-ash, and L. Cher. *J.* 1163 (1965) [7, 1447 (1965)]
- CHEREPANOV, V. I.**
Calculation of the Parameters of the Spin Hamiltonian of Cr^{3+} in MgAl_2O_4 . (T) V. I. Cherepanov and A. N. Men'. *J.* 219 (1965) [7, 285 (1965)]
- CHEREPANOV, V. I.**
The Theory of the EPR Spectrum of Pairs of Exchange-Bound Paramagnetic Ions in Crystals. (T) A. E. Nikiforov and V. I. Cherepanov. *J.* 931 (1965) [7, 1162 (1965)]
- CHEREPANOV, V. I.**
On Calculating the Intensities of the Broad Lines in the Ruby Spectrum. (T) B. I. Rezer and V. I. Cherepanov. *J.* 1634 (1966) [7, 2024 (1965)]

- CHEREPANOV, V. I.
Inclusion of Term "Interaction" in Calculating the EPR Spectra of Ions of the Iron Group. (T) A. N. Men', F. I. Mufzakova, A. P. Nikolaev, and V. I. Cherepanov. *J.* 1754 (1966) [*J.* 2189 (1965)]
- CHEREPANOV, V. I.
Calculation of the Energy Spectra of Ions Having $3d^N$ Configuration in a Cubic Crystal Field. (T) V. V. Druzhnina, V. I. Cherepanov, and V. S. Levin. *J.* 2023 (1966) [*J.* 2513 (1965)]
- CHEREPANOV, V. I.
Correction to the Article "The Theory of the EPR Spectrum of Pairs of Exchange-Bound Paramagnetic Ions in Crystals." (T) A. E. Nikiforov and V. I. Cherepanov. *J.* 2769 (1966) [*J.* 3431 (1965)]
- CHERNETS, A. N.
Spin-Lattice Relaxation of the Fe^{3+} Ion in Natural Andalusite at Low Temperatures. (E) I. I. Eru, S. A. Peakovskaki, and A. N. Chernets. *J.* 293 (1965) [*J.* 363 (1965)]
- CHERNIK, I. A.
Band Model of $SnTe$. (E/T) B. A. Efimova, V. I. Kaidanov, B. Ya. Molzhas, and I. A. Chernik. *J.* 2032 (1966) [*J.* 2524 (1965)]
- CHERNOV, Y. I.
Influence of the Orientation of GaAs Crystals on the Depth and Photoelectric Properties of Diffused p-n Junctions. (E) A. A. Gutkin, M. B. Kuznetsov, V. E. Sedov, and Ya. I. Chernov. *J.* 2046 (1966) [*J.* 2538 (1965)]
- CHERNYAVSKI, K. A.
Photocurrent Oscillations in PbO Photoresistors. (T) V. A. Izvozhnikov, M. S. Kosman, and K. A. Chernyavskii. *J.* 1248 (1965) [*J.* 1552 (1965)]
- CHIKOVANI, R. I.
Some Optical and Photoelectric Properties of MoO_3 . (E/T) R. B. Dzhanelidze, I. M. Purtseladze, L. S. Khitarishvili, R. I. Chikovani, and A. L. Skhol'nik. *J.* 2082 (1966) [*J.* 2573 (1965)]
- CHIRKIN, G. K.
Electron Paramagnetic Resonance of Iron Group Ions in NH_4Cl Single Crystals. (E) M. M. Zariyov and G. K. Chirkin. *J.* 74 (1965) [*J.* 100 (1965)]
- CHIRKIN, G. K.
EPR Spectra and Coordination Structure of Paramagnetic Ions in NH_4Cl . (E/T) M. M. Zariyov and G. K. Chirkin. *J.* 2391 (1966) [*J.* 2947 (1965)]
- CHIRKIN, G. K.
EPR and Second-Order Phase Transitions in NH_4Cl . (E) M. M. Zariyov and G. K. Chirkin. *J.* 2744 (1966) [*J.* 3408 (1965)]
- CHIRKIN, L. K.
Negative Differential Resistance of Silicon Carbide Crystals. (E) L. K. Chirkin. *J.* 1787 (1966) [*J.* 2220 (1965)]
- CHISLER, E. V.
Temperature Dependence of the Intensity of the First-Order Raman Scattering Spectra of Crystals. (E/T) E. V. Chisler. *J.* 216 (1965) [*J.* 279 (1965)]
- CHISLER, E. V.
Investigation of Phase Transitions in Sodium and Potassium Nitrates from the Raman Scattering Spectra. (E) E. V. Chisler. *J.* 1283 (1965) [*J.* 1586 (1965)]
- CHISLER, E. V.
Temperature Dependence of the Intensity of the Second-Order Raman Scattering Spectrum of NaCl Crystals. (E) T. I. Maksimova, A. I. Stekhanov, and E. V. Chisler. *J.* 1515 (1965) [*J.* 1881 (1965)]
- CHISLER, E. V.
Investigation of a Phase Transition in a Ferroelectric $NaNO_3$ Crystal Using Raman Scattering Spectra. (E/T) E. V. Chisler. *J.* 1825 (1966) [*J.* 2258 (1965)]
- CHUDAKOV, V. S.
The Calculation of the Elastic Binding Coefficients and the Compressibility of Spinel. (T/E) V. S. Chudakov and A. N. Men'. *J.* 1821 (1966) [*J.* 2254 (1965)]
- CHUENKOV, V. A.
Effect of Mutual Drag of Electrons and Phonons on the Electrical Conductivity of Semimetals and Degenerate Semiconductors in a Strong Electric Field. (T) V. A. Chuenkov. *J.* 1990 (1966) [*J.* 2469 (1965)]
- CRUCEANU, E.
Certain Properties of $HgTe$ Single Crystals Grown from the Melt. (E) E. Cruceanu, D. Niculescu, N. Nistor, I. Starnulescu, and S. Ionescu-Bujor. *J.* 1456 (1965) [*J.* 1808 (1965)]
- CRUCEANU, E.
Electrical Properties of Some Solid Solutions of the $Zn_{1-x}Hg_xTe$ system. (E/T) E. Cruceanu, D. Niculescu, I. Starnulescu, N. Nistor, and S. Ionescu-Bujor. *J.* 1646 (1966) [*J.* 2039 (1965)]
- DANIL'CHUK, L. N.
Observation of Stress Fields Around Individual Dislocations by the Method of Anomalous Transmission of X Rays. (E) L. N. Danil'chuk and T. A. Smorodina. *J.* 1003 (1965) [*J.* 1245 (1965)]
- DANILOV, V. V.
Effect of Crystal Defects on the Line Width of Ferromagnetic Resonance in Ferrites. (E) I. A. Deryugin and V. V. Danilov. *J.* 2894 (1966) [*J.* 3588 (1965)]
- DANILYUK, Yu. L.
Electrical and Radiospectroscopic Investigations of Barium Titanate with Additives of Oxides of Trivalent Elements. (E) B. A. Rozenberg, Yu. L. Danilyuk, E. I. Gladin, and V. G. Prokhorov. *J.* 2465 (1966) [*J.* 3048 (1965)]
- DANTSIGER, A. Ya.
Ferroelectric Properties of Solid Solutions in the KNO_3-KI System. (E) A. Ya. Dantsiger and I. A. Freizon. *J.* 1218 (1965) [*J.* 1517 (1965)]
- DANTSIGER, A. Ya.
Ferroelectric Properties of $Rb_xK_{1-x}NO_3$ Solid Solutions. (E) A. Ya. Dantsiger and I. A. Freizon. *J.* 1762 (1966) [*J.* 2190 (1965)]
- DANTSIGER, A. Ya.
Phase Diagram of the System $K-Rb_{1-x}NO_3$. (E) A. Ya. Dantsiger. *J.* 1845 (1966) [*J.* 2279 (1965)]
- DATSENKO, L. I.
Investigation of Structural Defects in CdS Single Crystals. (T) N. I. Vitrikovskii, L. I. Datsenko, and M. Ya. Skorokhod. *J.* 693 (1965) [*J.* 870 (1965)]
- DAUTOV, R. A.
Double Nuclear Resonance on the Hyperfine Levels of Paramagnetic Ions and F^{29} Nuclei in CaF_2 . (E) A. G. Akhmedov and R. A. Dautov. *J.* 727 (1965) [*J.* 915 (1965)]
- DAVIDOV, L. A.
Magnetic Spectra of Lithium-Zinc Ferrites. (E) L. A. Davidov, S. A. Poltmanov, and M. F. Bryzhina. *J.* 596 (1965) [*J.* 746 (1965)]
- DEKHTYAR, I. Ya.
Effect of Plastic Deformation and Quenching on the Paramagnetic Properties of Aluminum. (T/E) I. Ya. Dekhtyar and R. G. Fedchenko. *J.* 710 (1965) [*J.* 893 (1965)]
- DEMCHUK, K. M.
Transport Processes in Doped Indium Antimonide at High Pressures. (E) K. M. Demchuk, I. M. Tsidi'kovskii, and K. P. Rodionov. *J.* 1257 (1965) [*J.* 1561 (1965)]
- DEMESHINA, A. I.
Investigation of Some Inorganic Dielectric Materials in the Far Infrared. (E) M. D. Mashkovich and A. I. Demeshina. *J.* 1333 (1966) [*J.* 1634 (1965)]
- DEMICHOVSKI, V. Ya.
Superconductivity Phenomena in Thin Semiconductor Films. (T) V. Ya. Demichovskii. *J.* 2903 (1966) [*J.* 3606 (1965)]
- DENIS, V.
Hall Effect in p-Type Germanium in Strong Electric Fields. (E) K. Rephas, R. Vashkevichus, V. Denis, and Yu. Pozhela. *J.* 740 (1965) [*J.* 927 (1965)]
- DENISOV, S. S.
Study of Secondary Electron Emission from Solids with Obliquely Incident Primary Electrons. (E) I. M. Bronshteyn and S. S. Denisov. *J.* 1484 (1965) [*J.* 1846 (1965)]

DENISOV, S. S.

Energy Distribution of Inelastically Scattered Electrons in Solids for Oblique Incidence of the Primary Beam. (E) I. M. Bronshteyn and S. S. Denisov. *J.* 1819 (1966) [*J.* 2252 (1966)]

DENISOVA, A. D.

The Photoconductivity of Silicon Doped with Deep Impurities. (E) K. D. Glinchuk, A. D. Denisova, and N. M. Litovchenko. *J.* 2263 (1966) [*J.* 3689 (1965)]

DERNOV-PEGAREV, V. F.

Investigation of EPR of Mn^{2+} Ions in Single Crystals of $ZnMoO_4$. (E) V. F. Derno-pegarev, M. M. Zaripov, M. I. Samotlovich, and V. G. Stepanov. *J.* 2963 (1966) [*J.* 3688 (1965)]

DERYUGIN, I. A.

Effect of Crystal Defects on the Line Width of Ferromagnetic Resonance in Ferrites. (E) I. A. Deryugin and V. V. Danilov. *J.* 2894 (1966) [*J.* 3588 (1965)]

DEVYATKOVA, E. D.

Scattering of Photons and Electrons in Solid Solutions. (E/T) E. D. Devyatkova and V. V. Tikhonov. *J.* 1427 (1965) [*J.* 1770 (1965)]

DEVYATKOVA, E. D.

Determining the Forbidden-Gap Width of PbTe at High Temperatures. (E) V. A. Saakyan, E. D. Devyatkova, and I. A. Smirnov. *J.* 2541 (1966) [*J.* 3138 (1965)]

DIMOVA, N. I.

Investigation of Impulse Breakdown in Solid Dielectrics. (E) A. V. Baranov, L. G. Nekrasova, and N. I. Dimova. *J.* 2030 (1966) [*J.* 2523 (1965)]

DISTLER, G. I.

Direct Observation of Active Centers on Surfaces of Semiconducting Crystals. (E) G. I. Distler and S. A. Kobzareva. *J.* 1977 (1966) [*J.* 2450 (1965)]

DMITRIEVA, L. V.

The Relationship Between Electrical Conductivity and the State of the V^{5+} Ions in V_2O_5 Crystals. (E) L. V. Dmitrieva, V. A. Ioffe, and I. B. Patrino. *J.* 2228 (1966) [*J.* 2754 (1965)]

DOBREGO, V. P.

Interimpurity Recombination in Gallium Arsenide. (E/T) V. P. Dobrego, S. M. Ryvkin, and A. L. Shkol'nik. *J.* 671 (1965) [*J.* 841 (1965)]

DOBREGO, V. P.

Influence of Deformation on the Interimpurity Recombination in Germanium. (E/T) V. P. Dobrego and S. M. Ryvkin. *J.* 770 (1965) [*J.* 3154 (1965)]

DOBRETISOV, L. N.

Field Emission of Electrons from a Metal Covered with a Layer of Adsorbed Atoms. (E/T) L. N. Dobretsov. *J.* 2589 (1966) [*J.* 3200 (1965)]

DOBOVINSKAYA, E. R.

Diffusion of Thallium Along Dislocations in a Potassium Iodide Single Crystal. (E) Ya. E. Geguzin and E. R. Dobrovinskaya. *J.* 1660 (1966) [*J.* 2058 (1965)]

DOBOVINSKAYA, E. R.

Self-Diffusion of Na^+ Ions Along Edge and Screw Dislocations in NaCl Single Crystals. (E) Ya. E. Geguzin and E. R. Dobrovinskaya. *J.* 2828 (1966) [*J.* 3498 (1965)]

DOBOVOL'SKII, V. N.

Investigation of Surface Scattering of Charge Carriers by the Hall Current Method. (T/E) V. N. Dobovol'skii and Chan Van-Kuin'. *J.* 647 (1965) [*J.* 811 (1965)]

DOLIDZE, N. D.

Hysteresis Nature of the Current-Voltage Characteristic of a p-n Junction Produced by Irradiation in Germanium. (E) A. B. Gerasimov, N. D. Dolidze, B. M. Konvalenko, and S. M. Ryvkin. *J.* 2070 (1966) [*J.* 2562 (1965)]

DOMANSKAYA, L. I.

The Nernst-Ettingshausen Effect in Doped n-Silicon. (T/E) L. I. Domanskaya, G. I. Khurav, and I. M. Tsaid'kovskii. *J.* 32 (1965) [*J.* 46 (1965)]

DOROZHNIK, A. A.

Auger Ejection of Electrons from Tungsten and Molybdenum by Mercury Ions. (E/T) A. A. Dorozhnik and N. N. Petrov. *J.* 88 (1965) [*J.* 118 (1965)]

DOVCHENKO, N. K.

Experimental Study of Low-Frequency Oscillations in the Region of Ferrite Instability Under Parallel Pumping. (E) N. K. Dovchenko and Yu. S. Brokevich. *J.* 2754 (1966) [*J.* 3417 (1965)]

DRABKIN, G. M.

Investigation of the Magnetic Ordering in Ferroelectric $PbFe_{1-x}Nb_xO_3$. (E) G. M. Drabkin, E. I. Mal'tsev, and V. P. Plakhtil. *J.* 997 (1965) [*J.* 1241 (1965)]

DRABKIN, I. A.

Forbidden-Band Width of Nickel Monoxide. (E) Ya. M. Kaendrov and I. A. Drabkin. *J.* 1519 (1965) [*J.* 1884 (1965)]

DRANOVA, Zh. I.

Direct Observation of the Reestablishment of Contacts Between Fragments of a Tungsten Microcrystal. (E) R. I. Garber, Zh. I. Dranova, and I. M. Mikhailovskii. *J.* 395 (1965) [*J.* 496 (1965)]

DRICHKO, I. L.

The Effect of Microinhomogeneities on the Nernst Effect in InSb. (E) I. L. Drichko and I. V. Mochan. *J.* 2634 (1966) [*J.* 3260 (1965)]

DROKIN, A. I.

Variation of Losses on Rotational Hysteresis in Single Crystals of Nickel-Cobalt Ferrites as the Result of Heat Treatment and Thermomagnetic Treatment. (E) N. I. Sudakov, S. Sh. Gendeleev, and A. I. Drokina. *J.* 1908 (1966) [*J.* 2362 (1965)]

DROZDOVSKI, V. F.

EPR Spectra of Free Radicals Arising in the Mechanical Breakdown of Polymers. Vulcanized Rubbers. (E) P. Yu. Batiyagin, V. F. Drozdovskii, D. R. Razgov, and I. V. Kolbanev. *J.* 787 (1965) [*J.* 941 (1965)]

DRUGOVA, A. A.

The Theory of Radiative Recombination via Impurity Centers in Homogeneous Semiconductors. (T) V. L. Bonch-Bruvich and A. A. Drugova. *J.* 2491 (1966) [*J.* 3083 (1965)]

DRUZHININ, V. V.

Effect of the Electric Field on the EPR Spectrum. (T) V. V. Druzhinin. *J.* 764 (1965) [*J.* 948 (1965)]

DRUZHININ, V. V.

Calculation of the Energy Spectra of Ions Having $3d^N$ Configuration in a Cubic Crystal Field. (T) V. V. Druzhinin, V. I. Cherepanov, and V. S. Levin. *J.* 2023 (1966) [*J.* 2513 (1965)]

DRUZHININ, V. V.

Calculation of Energy Spectrum of $3d^N$ -Configuration Ions in a Crystal Field Having Cubic Symmetry. (T/E) V. V. Druzhinin. *J.* 2820 (1966) [*J.* 3490 (1965)]

DUBINSKAYA, L. S.

Negative Longitudinal Magnetoresistance Accompanying Scattering by Acoustic Phonons. (T) L. S. Dubinskaya. *J.* 2280 (1966) [*J.* 2821 (1965)]

DUBOSSARSKAYA, V. Ya.

Investigation of the Law of Approach to Saturation in Polycrystalline Samples of Yttrium Garnet. (E/T) V. Ya. Dubossarskaya. *J.* 2634 (1966) [*J.* 3120 (1965)]

DUBOVSKI, O. A.

Cross Section for Scattering of a Free Exciton by Impurities in a Molecular Crystal. (T) O. A. Dubovskii and Yu. V. Konobeev. *J.* 762 (1965) [*J.* 946 (1965)]

DUBOVSKI, O. A.

Surface Excitons in Uniaxial Crystals. (T) V. M. Agranovich and O. A. Dubovskii. *J.* 2343 (1966) [*J.* 2885 (1965)]

DUBOVSKI, L. A.

Relaxation Phenomena in Diode Structures in Cadmium Sulfide Films. (E/T) E. I. Adirovich, L. A. Dubrovskii, and L. B. Suzdalkina. *J.* 759 (1965) [*J.* 943 (1965)]

DUDOLADOV, I. P.

Compression of Alkali Metals by Strong Shock Waves. (E/T) A. A. Bakanova, I. P. Dudoladov, and R. F. Trunin. *J.* 1307 (1965) [*J.* 1615 (1965)]

DULEPOV, E. V.

Permittivities and Atomic Charges of Rare-Earth Metal Oxides. (E) S. S. Balasov and E. V. Dulepov. *J.* 995 (1965) [*J.* 1239 (1965)]

- DUMCHAK, Ya. I.**
Structure and Thermoelectric Properties of the Bismuth-Cadmium System in the Solid and Liquid States. (E) Ya. I. Dumchak, V. Ya. Prokhorchenko, and N. M. Klym. *J.* 1595 (1966) [*J.* 1974 (1965)]
- DUTCHAK, Ya. I.**
Structure of In₂Bi in the Amorphous State. (E) Ya. I. Dutchak and A. G. Mikolajchuk. *J.* 1780 (1966) [*J.* 2213 (1965)]
- DYKMAN, I. M.**
Conduction Anisotropy of Hot Electrons and Interelectron Interactions. (T/E) I. M. Dykman and P. M. Tomchuk. *J.* 224 (1965) [*J.* 286 (1965)]
- DYKMAN, I. M.**
Microwave Conductivity of Semiconductors with Carriers Heated by a DC Field. (T) I. M. Dykman and E. I. Tolpygo. *J.* 332 (1965) [*J.* 414 (1965)]
- DYKMAN, I. M.**
Anisotropy of the Microwave Conductivity and Absorption in Semiconductors with Hot Carriers. (T) I. M. Dykman and E. I. Tolpygo. *J.* 1804 (1966) [*J.* 2237 (1965)]
- DYKMAN, I. M.**
Anisotropic Effect of Electron-Electron Scattering on the Conductivity of Semiconductors with Ellipsoidal Equienergy Surfaces. (T) I. M. Dykman and P. M. Tomchuk. *J.* 1861 (1966) [*J.* 2298 (1965)]
- DYKMAN, I. M.**
Temperature and Mobility of Hot Electrons in Polar Semiconductors. (T) N. N. Grigor'ev, I. M. Dykman, and P. M. Tomchuk. *J.* 2719 (1966) [*J.* 3378 (1965)]
- DZHAMAGIDZE, Sh. Z.**
Investigation of the Self-Absorption Edge of Boron. (E) Sh. Z. Dzhamagidze, R. R. Shvangradze, Yu. A. Mal'tsev, and M. F. Oglava. *J.* 1259 (1965) [*J.* 1563 (1965)]
- DZHANELIDZE, R. B.**
Some Optical and Photoelectric Properties of MoO₃. (E/T) R. B. Dzhanelidze, I. M. Purteladze, L. S. Khitarishvili, R. I. Chikovani, and A. L. Shkol'nik. *J.* 2082 (1966) [*J.* 2573 (1965)]
- DZYUB, I. P.**
Theory of the Mössbauer Effect in Nonideal Crystals. (T/E) I. P. Dzyub. *J.* 300 (1965) [*J.* 372 (1965)]
- EFIMOVA, B. A.**
Thermoelectric Properties of PbTe-SnTe Solid Solutions. (E/T) B. A. Efimova and L. A. Kolomoets. *J.* 339 (1965) [*J.* 424 (1965)]
- EFIMOVA, B. A.**
Band Model of SnTe. (E/T) B. A. Efimova, V. I. Kaidanov, B. Ya. Molzhes, and I. A. Chernik. *J.* 2032 (1966) [*J.* 2524 (1965)]
- EFIMOVA, B. A.**
Thermoelectric Properties of n-Type PbTe at High Temperatures. (E) T. S. Stavitskaya, V. A. Long, and B. A. Efimova. *J.* 2062 (1966) [*J.* 2554 (1965)]
- EFREMENKOVA, V. M.**
Preparation of Thin Intermediate Compound Films by the Cathode Sputtering Method. (E) V. E. Yurasova, L. N. Levykina, and V. M. Efremenkova. *J.* 2332 (1966) [*J.* 2876 (1965)]
- ÉFROS, A. L.**
The Theory of Oscillations in the Longitudinal Magnetoresistance. (T) A. L. Éfros. *J.* 1206 (1965) [*J.* 1501 (1965)]
- ÉFROS, A. L.**
Electromagnetic Theory of the Injection Laser. (T) R. F. Kazarinov, O. V. Konstantinov, V. I. Perel', and A. L. Éfros. *J.* 1210 (1965) [*J.* 1508 (1965)]
- EGOROV, V. D.**
New Data on the Electron-Excited Recombination Radiation Spectrum of Cadmium Telluride. (E) V. S. Vavilov, É. L. Nolle, and V. D. Egorov. *J.* 749 (1965) [*J.* 934 (1965)]
- EGOROV, V. D.**
Energy of Ionization by Electrons in Germanium and Silicon Carbide Crystals. (E/T) G. P. Golubev, V. S. Vavilov, and V. D. Egorov. *J.* 3000 (1966) [*J.* 3702 (1965)]
- ÉLANGO, M. A.**
Role of Hole Processes in the Formation of F-Centers in Ionic Crystals During the Initial Stage of Radiation-Induced Coloration. (E) R. O. Vilu and M. A. Élango. *J.* 2967 (1966) [*J.* 3673 (1965)]
- ELESIN, V. F.**
Nonsteady-State Photomagnetic Effect in Germanium. (E/T) V. A. Gridin and V. F. Elesin. *J.* 585 (1965) [*J.* 730 (1965)]
- ÉL'GARD, A. M.**
Influence of the Domain Structure of Ceramic Ferroelectrics on Their Mechanical Properties. (E) L. N. Syrkin and A. M. Él'gard. *J.* 967 (1965) [*J.* 1206 (1965)]
- ELINSON, M. I.**
Transverse Hall Effect and Magnetoresistivity of Ge in Strong Magnetic Fields. (E) V. N. Lutskii, A. A. Zhironov, and M. I. Elinson. *J.* 415 (1965) [*J.* 521 (1965)]
- ELISEEV, P. G.**
Semiconductor Quantum Generator Based on a p-n Junction in a GaAs_{1-x}P_x Compound. (E) N. G. Basov, P. G. Eliseev, V. V. Nikitin, A. V. Lishina, V. N. Maslov, and A. Ya. Nasbel'skii. *J.* 1539 (1965) [*J.* 1902 (1965)]
- EMEL'YANENKO, O. V.**
Formation and Properties of an Impurity Band in n-Type GaAs. (E/T) O. V. Emel'yanenko, T. S. Lagunova, D. N. Nasledov, and G. N. Talalakin. *J.* 1063 (1965) [*J.* 1315 (1965)]
- EMEL'YANENKO, O. V.**
Effect of Copper on the Electrical Properties of Gallium Arsenide. (E) O. V. Emel'yanenko, E. E. Klotyn'sh, and D. N. Nasledov. *J.* 1292 (1965) [*J.* 1595 (1965)]
- ENIKEEVA, K. Sh.**
Residual Dielectric Effect of the Electroluminescence in ZnS Electroluminescent Phosphors. (E) F. I. Vergunov and K. Sh. Enikeeva. *J.* 1842 (1966) [*J.* 2276 (1965)]
- ÉPSTEIN, É. M.**
The Theory of Amplification and Generation of Ultrasound in Semiconductors. (T) É. M. Épstein. *J.* 688 (1965) [*J.* 862 (1965)]
- EREMENKO, V. V.**
Infrared Absorption Spectra of Antiferromagnetic Crystals of the CoF₂(1-x)-MnF₂x System. (E) A. I. Zvyagin, V. V. Eremenko, and V. I. Kut'ko. *J.* 2505 (1966) [*J.* 3102 (1965)]
- ERMOLOVICH, I. B.**
Temperature Dependences of the Cross Sections for the Capture of Electrons by Recombination Centers in CdS and CdSe. (E) M. K. Sheikman, I. Ya. Gorodetskii, and I. B. Ermolovich. *J.* 2538 (1966) [*J.* 3134 (1965)]
- EROFEEV, R. S.**
Thermal Conductivity of Doped Si-Ge Solid Solutions. (E) R. S. Erofeev, E. K. Iordanishvili, and A. V. Petrov. *J.* 2470 (1966) [*J.* 3054 (1965)]
- ERSHOV, O. A.**
X-Ray Spectra of Silicon in Crystalline and Glassy Quartz and in Lithium Silicate Glasses. (E) O. A. Ershov, D. A. Gogonov, and A. P. Lukitskii. *J.* 1903 (1966) [*J.* 2355 (1965)]
- ERU, I. I.**
Spin-Lattice Relaxation of the Fe³⁺ Ion in Natural Andalusite at Low Temperatures. (E) I. I. Eru, S. A. Peskovatskii, and A. N. Chernets. *J.* 293 (1965) [*J.* 363 (1965)]
- FAKIDOV, I. G.**
Galvanomagnetic Properties of MnAu₂. (E/T) V. N. Novogrudskii and I. G. Fakidov. *J.* 879 (1965) [*J.* 1095 (1965)]
- FAKIDOV, I. G.**
Magnetic Properties of Mn₂Gep. (E) V. N. Novogrudskii, I. G. Fakidov, and V. V. Semenov. *J.* 2319 (1966) [*J.* 2863 (1965)]
- FAKIDOV, I. G.**
Galvanomagnetic Effects in Semiconductors with an Inhomogeneous Impurity Distribution. (T/E) É. A. Zavadskii, Yu. T. Kovrizhnykh, and I. G. Fakidov. *J.* 2890 (1966) [*J.* 3582 (1965)]
- FARBSHTEIN, I. I.**
Galvanomagnetic Properties of Tellurium and Structure of the Valence Band Near the Energy Minimum. (E) I. I. Farbshtein, A. M. Pogarskii, and S. S. Shalyt. *J.* 1925 (1966) [*J.* 2383 (1965)]

- FARUK, M. A.**
Scattering of Ions by the Surfaces of Alloys. (E) E. S. Mashkova, V. A. Molchanov, V. Sozhka, and M. A. Faruk. *J.* 2371 (1966) [7, 2921 (1965)]
- FEDCHENKO, R. G.**
Effect of Plastic Deformation and Quenching on the Paramagnetic Properties of Aluminum. (T/E) I. Ya. Dekhtyar and R. G. Fedchenko. *J.* 710 (1965) [7, 893 (1965)]
- FEDORENKO, A. I.**
The Mechanism of Formation of Growth Textures in Beryllium Condensates. (E) L. S. Palatnik and A. I. Fedorenko. *J.* 653 (1965) [7, 819 (1965)]
- FEDORENKO, A. I.**
Condensation Coefficient of Beryllium. (E) L. S. Palatnik and A. I. Fedorenko. *J.* 2561 (1966) [7, 3163 (1965)]
- FEDOROV, G. V.**
Some Regularities in the Bulk Condensation of Metals and Alloys. (E) L. S. Palatnik, G. V. Fedorov, and P. N. Bogatov. *J.* 2141 (1966) [7, 2648 (1965)]
- FEDOROV, G. V.**
Hall Effect in Neodymium and Samarium. (E) N. V. Volkenshtein and G. V. Fedorov. *J.* 2599 (1966) [7, 3213 (1965)]
- FEDOROV, V. N.**
Investigation of the Magnetic Susceptibility of Neodymium Chalcogenides. (E) V. E. Adamyan, A. V. Golubkov, G. M. Loginov, and V. N. Fedorov. *J.* 2715 (1966) [7, 3372 (1965)]
- FEDOROVA, I. G.**
Angular Dependence of the Secondary Emission Coefficients for a KBr Single Crystal Bombarded with Potassium Ions. (E) I. A. Abroyan, V. P. Lavrov, and I. G. Fedorova. *J.* 2954 (1966) [7, 3660 (1965)]
- FEDOROVICH, N. A.**
Diffusion of Silver and Sodium in LeadSelenide. (E) N. A. Fedorovich. *J.* 1239 (1965) [7, 1593 (1965)]
- FEDOROVICH, N. A.**
Diffusion of Chlorine in PbSe Single Crystals. (E) N. A. Fedorovich. *J.* 1291 (1965) [7, 1594 (1965)]
- FEODILOV, P. P.**
Additively Reduced Valent Rare Earths in Fluorite Crystals. (E) V. A. Arkhangelskaya, B. I. Maksakov, and P. P. Feofilov. *J.* 1827 (1966) [7, 2260 (1965)]
- FILATOVA, L. D.**
Role of Thermal Conductivity and Heat Transfer in Magnetic Susceptibility. (T/E) M. I. Kaganov and L. D. Filatova. *J.* 1690 (1966) [7, 2098 (1965)]
- FILIPCHENKO, A. S.**
Temperature Dependence of the Effective Electron Mass in Indium Antimonide. (T/E) V. V. Galavanov, D. N. Nasledov, and A. S. Filipchenko. *J.* 1541 (1965) [7, 1904 (1965)]
- FINKEL', V. M.**
The Interaction of a Crack with Dislocation Boundaries. (E) V. M. Finkel', A. M. Savel'ev, L. B. Zuev, S. V. Serebryakov, Yu. M. Korobov, and I. B. Zueva. *J.* 1130 (1965) [7, 1402 (1965)]
- FIRSOV, Yu. A.**
Adiabatic Approximation in the Theory of Low Mobility. (T) E. K. Kudinov and Yu. A. Firsov. *J.* 435 (1965) [7, 546 (1965)]
- FIRSOV, Yu. A.**
Spin-Reversal Interaction of Electrons with Optical Phonons in Semiconductors. (T) S. T. Pavlov and Yu. A. Firsov. *J.* 2131 (1966) [7, 2634 (1965)]
- FISTUL', V. I.**
Planar Hall Effect in Heavily Doped Germanium. (T/E) D. G. Andrianov and V. I. Fistul'. *J.* 636 (1965) [7, 796 (1965)]
- FISTUL', V. I.**
Properties of the Electronic Spectrum in Heavily Doped Gallium Arsenide. (T/E) V. I. Fistul' and A. M. Agaez. *J.* 2461 (1966) [7, 3042 (1965)]
- FISTUL', V. I.**
Determination of the Deep-Lying Levels of Fe, Ni, and Co in Gallium Arsenide. (E) V. I. Fistul' and A. M. Agaez. *J.* 2975 (1966) [7, 3681 (1965)]
- FOGEL', Ya. M.**
Application of the Method of Secondary Ion-Ion Emission to the Study of the Interaction of Oxygen with a Niobium Surface. (E) V. I. Shvachko, B. T. Nadykto, Ya. M. Fogel', B. M. Vasyutinskii, and G. N. Kartmazov. *J.* 1572 (1966) [7, 1944 (1965)]
- FRANKEVICH, E. L.**
A Study of Carrier Mobility in Organic Materials. (T) E. L. Frankevich and E. I. Balabanov. *J.* 570 (1965) [7, 710 (1965)]
- FRANKEVICH, E. L.**
Investigation of the Motion of Carriers in Organic Substances. (E/T) E. L. Frankevich and E. I. Balabanov. *J.* 1352 (1965) [7, 1667 (1965)]
- FREIZON, I. A.**
Ferroelectric Properties of Solid Solutions in the KNO_3 - K_2SO_4 System. (E) A. Ya. Dantsiger and I. A. Freizon. *J.* 1218 (1965) [7, 1517 (1965)]
- FREIZON, I. A.**
Ferroelectric Properties of $\text{Rb}_2\text{K}_2\text{NO}_3$ Solid Solutions. (E) A. Ya. Dantsiger and I. A. Freizon. *J.* 1762 (1966) [7, 2190 (1965)]
- FRIDBERG, I. D.**
Antiferroelectric Properties of Lead Orthovanadate. (E) V. A. Isupov, N. N. Krainik, I. D. Fridberg, and I. E. Zelenkova. *J.* 844 (1965) [7, 1051 (1965)]
- FRIDKIN, V. M.**
Influence of High Hydrostatic Pressure on the Photoconductivity of CdS Single Crystals. (E/T) K. Gulyamov, N. A. Tikhomirova, and V. M. Fridkin. *J.* 834 (1965) [7, 1037 (1965)]
- FRIDKIN, V. M.**
Photoconductivity of HgI_2 Single Crystals at High Hydrostatic Pressures. (E) K. Gulyamov, N. A. Tikhomirova, I. D. Turyanitsa, and V. M. Fridkin. *J.* 2201 (1966) [7, 2723 (1965)]
- FRIDMAN, V. Ya.**
Comparison of the Strength of Lithium Fluoride "Whiskers" and "Splinters." (E) A. A. Shpunt and V. Ya. Fridman. *J.* 517 (1965) [7, 649 (1965)]
- FURSISOV, M. M.**
Optical Properties of CaF_2 - Dy^{3+} Crystals. (E) Yu. K. Voron'ko, V. V. Osiko, V. T. Udovenchik, and M. M. Fursikov. *J.* 204 (1965) [7, 267 (1965)]
- FURSISOV, M. M.**
Optical Properties of CaF_2 - Nd^{3+} Crystals. (E/T) Yu. K. Boron'ko, L. V. Krotova, V. V. Osiko, V. T. Udovenchik, and M. M. Fursikov. *J.* 1450 (1965) [7, 1800 (1965)]
- GABRUZOV, D. Z.**
Recombination Radiation Spectrum of Gallium Arsenide with Current Excitation via p-n Heterojunctions of Gallium Phosphide-Gallium Arsenide. (E) Zh. I. Alifirov and D. Z. Gabruzov. *J.* 1919 (1966) [7, 2375 (1965)]
- GALANTSEVA, M. A.**
Certain Characteristics of the Kinetics of Nonequilibrium Conductivity in Lead Oxide. (E) M. A. Galantseva and V. A. Izvozhnikov. *J.* 2939 (1966) [7, 3646 (1965)]
- GALAVANOV, V. V.**
Temperature Dependence of the Effective Electron Mass in Indium Antimonide. (T/E) V. V. Galavanov, D. N. Nasledov, and A. S. Filipchenko. *J.* 1541 (1965) [7, 1904 (1965)]
- GALAVANOV, V. V.**
Investigation of the Nonequilibrium Carrier Lifetime and Noise in p-Type InSb. (E/T) A. D. Berkeliev, A. S. Volkov, V. V. Galavanov, and D. N. Nasledov. *J.* 1545 (1965) [7, 1908 (1965)]
- GALAVANOV, V. V.**
The Effect of Deep Acceptor Levels on the Electrical Properties of p-InSb. (E) A. D. Berkeliev, V. V. Galavanov, and D. N. Nasledov. *J.* 2980 (1966) [7, 3685 (1965)]
- GALAVANOV, V. V.**
Some Properties of p-Type CdSnAs_2 . (E) V. V. Galavanov, N. A. Goryunova, N. M. Korshak, S. Mamaev, and A. Nazarov. *J.* 2949 (1966) [7, 3655 (1965)]

- GALKIN, A. A.
Study of Magnetoacoustic Effects in Gallium at 210 Mc. (E) P. A. Bezuglyi, A. A. Galkin, and S. E. Zheva. *J.* 383 (1965) [7, 480 (1965)]
- GAMBAROVA, D. A.
Diffusion and Solubility of Copper in Lead Selenide. (E) F. F. Kharakhoria, D. A. Gambarova, and V. V. Aksenov. *J.* 2813 (1966) [7, 3481 (1965)]
- GANN, V. V.
Bound Magnetoelastic Waves in Helical Magnetic Structures. (T) M. A. Savchenko and V. V. Gann. *J.* 1223 (1965) [7, 1523 (1965)]
- GANTSEVICH, S. V.
Theory of the Electroacoustic Effect in Semiconductors of the n-Ge and n-Si Types. (T) S. V. Gantsevich and V. L. Gurevich. *J.* 1939 (1966) [7, 2400 (1965)]
- GARBER, R. I.
Rate of Disappearance of Mechanical Twins in Calcite. (E) R. I. Garber and E. I. Stepina. *J.* 122 (1965) [7, 161 (1965)]
- GARBER, R. I.
Density Change of Ionic Crystals Subjected to Plastic Compression. (E) R. I. Garber and L. M. Polyakov. *J.* 127 (1965) [7, 167 (1965)]
- GARBER, R. I.
A Possible Mechanism for the Multiplication of Twinning Dislocations. (T) R. I. Garber and E. I. Stepina. *J.* 366 (1965) [7, 459 (1965)]
- GARBER, R. I.
Direct Observation of the Reestablishment of Contacts Between Fragments of a Tungsten Microcrystal. (E) R. I. Garber, Zh. I. Dranava, and I. M. Mikhailovskii. *J.* 395 (1965) [7, 496 (1965)]
- GARBER, R. I.
Decrease of the Critical Stresses for Dislocation Movement and Multiplication During Repeated Bending. (E) R. I. Garber, I. I. Soloshenko, and O. A. Khaldei. *J.* 2147 (1966) [7, 2655 (1965)]
- GARIFYANOV, N. S.
EPR in Supercooled Solutions of Fe(III), Ru(III), and Os(III). (E) N. S. Garifyanov and E. G. Kharakhash'yan. *J.* 1033 (1965) [7, 1274 (1965)]
- GASHIMZADE, F. M.
Singularities of the Conduction-Electron Spectrum in Semiconductors having Ionic Structures Located in a Strong Magnetic Field. (T) B. M. Askerov and F. M. Gashimzade. *J.* 894 (1965) [7, 1114 (1965)]
- GASHIMZADE, F. M.
Interband Faraday Effect in Semiconductors in Strong Crossed Electric and Magnetic Fields. (T) B. M. Askerov and F. M. Gashimzade. *J.* 2926 (1966) [7, 3631 (1965)]
- GAVRILISHINA, A. I.
Weak Ferromagnetism of CaMnO_3 . (E) V. M. Yudin, A. I. Gavriliashina, M. V. Artem'eva, and M. F. Bryzhina. *J.* 1856 (1966) [7, 2292 (1965)]
- GAVRILISHINA, A. I.
Paramagnetic Susceptibility of PrAlO_3 . (T/E) V. M. Yudin and A. I. Gavriliashina. *J.* 2772 (1966) [7, 3435 (1965)]
- GAVRILYUK, V. M.
Direct Proof of the Existence of Positive Charge in Adsorbed Th Atoms. (E) Yu. S. Vedula and V. M. Gavrilyuk. *J.* 2056 (1966) [7, 2547 (1965)]
- GEUZIN, Ya. E.
Surface Phenomena in Ionic Crystals. (T) I. M. Lifshits and Ya. E. Geuzin. *J.* 44 (1965) [7, 62 (1965)]
- GEUZIN, Ya. E.
The Phenomenon of "Vacancy Breakdown" During Self-Diffusion in Alkali-Halide Single Crystals. (E/T) Ya. E. Geuzin, V. I. Solunskii, and L. M. Reznik. *J.* 640 (1965) [7, 802 (1965)]
- GEUZIN, Ya. E.
Diffusion of Thallium Along Dislocations in a Potassium Iodide Single Crystal. (E) Ya. E. Geuzin and E. R. Dobrovinskaya. *J.* 1600 (1966) [7, 2058 (1965)]
- GEUZIN, Ya. E.
Self-Diffusion of Na^+ Ions Along Edge and Screw Dislocations in NaCl Single Crystals. (E) Ya. E. Geuzin and E. R. Dobrovinskaya. *J.* 2826 (1966) [7, 3488 (1965)]
- GEILUKMAN, B. T.
Critical Temperature for Ordinary and Anomalous Superconductors. (T) B. T. Geilikman and V. Z. Kresin. *J.* 2659 (1966) [7, 3294 (1965)]
- GEL'MONT, B. I.
Thermomagnetic Waves in Solids and Methods for Their Experimental Determination. (T) L. E. Gurevich and B. I. Gel'mont. *J.* 560 (1966) [7, 697 (1965)]
- GENDELEV, S. Sh.
Variation of Losses on Rotational Hysteresis in Single Crystals of Nickel-Cobalt Ferrites as the Result of Heat Treatment and Thermomagnetic Treatment. (E) N. I. Sudakov, S. Sh. Gendeleev, and A. I. Drokina. *J.* 1908 (1966) [7, 2362 (1965)]
- GENKIN, G. M.
High-Frequency Nonresonance Absorption by a Ferrimagnet. (T) G. M. Genkin. *J.* 675 (1965) [7, 846 (1965)]
- GENKIN, G. M.
The Spin-Phonon Width of the Exchange Resonance Line. (T) G. M. Genkin and N. G. Golubeva. *J.* 795 (1965) [7, 989 (1965)]
- GERASIMOV, A. B.
Current Oscillations in Germanium Containing Radiation Defects. (E/T) A. B. Gerasimov and S. M. Ryvkin. *J.* 526 (1965) [7, 657 (1965)]
- GERASIMOV, A. B.
Low-Temperature Annealing of Germanium, Irradiated with Fast Electrons. (E) A. B. Gerasimov and B. M. Konovalenko. *J.* 2054 (1966) [7, 2545 (1965)]
- GERASIMOV, A. B.
Hysteresis Nature of the Current-Voltage Characteristic of a p-n Junction Produced by Irradiation in Germanium. (E) A. B. Gerasimov, N. D. Dolzide, B. M. Konovalenko, and S. M. Ryvkin. *J.* 2070 (1966) [7, 2562 (1965)]
- GERMANN, R.
The Temperature Dependence of the Magnetization of Ferrites at Low Temperatures. (E/T) V. E. Rode, R. Germann, and I. V. Grishina. *J.* 1123 (1965) [7, 1393 (1965)]
- GERSHENZON, E. M.
Anisotropic Absorption of Electromagnetic Waves by Hot Carriers in Semiconductors. (E) E. M. Gershenson, Yu. A. Gurvich, and L. B. Litvak-Gorskaya. *J.* 1111 (1965) [7, 1378 (1965)]
- GERSHENZON, E. M.
On the Current-Carrier Interaction in Semiconductors. (T/E) E. M. Gershenson, Yu. A. Gurvich, and R. I. Rabinovich. *J.* 1379 (1965) [7, 1706 (1965)]
- GERST, A. V.
Influence of High Pressure on the Photoconductivity of Some Semiconductors. (T/E) A. I. Niklisk, A. V. Gerst, and Ya. Ya. Kira. *J.* 744 (1965) [7, 931 (1965)]
- GINDIN, E. I.
Electrical and Radiospectroscopic Investigations of Barium Titanate with Additions of Oxides of Trivalent Elements. (E) B. A. Rotenberg, Yu. L. Dandilyuk, E. I. Gindin, and V. G. Prokhatlov. *J.* 2465 (1966) [7, 3048 (1965)]
- GINZBURG, S. L.
Decaying Spin Complexes. (T) S. L. Ginzburg. *J.* 112 (1965) [7, 148 (1965)]
- GINZBURG, S. L.
Certain Polarization Effects in the Scattering of Neutrons in Solids. (T) S. L. Ginzburg and S. V. Maleev. *J.* 2477 (1966) [7, 3063 (1965)]
- GIORGADZE, N. P.
On the Nuclear Acoustic Resonance in Ferro- and Antiferromagnets. (T) L. L. Bulshvili and N. P. Giorgadze. *J.* 614 (1965) [7, 769 (1965)]
- GIORGADZE, N. P.
Theory of Nuclear Magnetic Resonance in Ferrometals. (T) L. L. Bulshvili, N. P. Giorgadze, and G. A. Kharadze. *J.* 2258 (1966) [7, 2793 (1965)]
- GIORGADZE, N. P.
Acoustical Resonance in Magnetic Substances Having a Simple Helicoidal Structure. (T) L. L. Bulshvili, N. P. Giorgadze, and G. A. Kharadze. *J.* 2956 (1966) [7, 3682 (1965)]

GIPPIUS, A. A.

Radiative Recombination in Germanium Crystals Having a High Density of Dislocations. (E/T) A. A. Gippius, V. S. Vavilov, L. A. Goncharov, and M. S. Murashov. *J.* 513 (1965) [7, 645 (1965)]

GIPPIUS, A. A.

Radiative Recombination at Radiation Structure Defects in Germanium. (E/T) A. A. Gippius and V. S. Vavilov. *J.* 515 (1965) [7, 647 (1965)]

GLADIKH, N. T.

The Condensation Diagram of Bi-Sb Alloys. (E) L. S. Palatnik, N. T. Gladikh, and M. N. Naboka. *J.* 887 (1965) [7, 1106 (1965)]

GLADIKH, N. T.

Investigation of Condensed ZnS-CdS and Zn-Cd-S Films of Variable Composition. (E) L. S. Palatnik, N. T. Gladikh, and M. N. Naboka. *J.* 2306 (1966) [7, 2850 (1965)]

GLAVIN, G. G.

Influence of a Mass-Spectroscopic Technique for Studying the Distribution of Microimpurities in Solid Substances. (E/T) G. G. Glavin and V. I. Lyubchenko. *J.* 409 (1965) [7, 513 (1965)]

GLINCHUK, K. D.

The Photoconductivity of Silicon Doped with Deep Impurities. (E) K. D. Glinchuk, A. D. Denisova, and N. M. Litovchenko. *J.* 2963 (1966) [7, 3669 (1965)]

GODIK, E. E.

Generation-Recombination Noise in Silicon Doped with Boron and Indium. (E/T) V. V. Proklov, E. E. Godik, and Ya. E. Pokrovskii. *J.* 263 (1965) [7, 326 (1965)]

GODIK, E. E.

Influence of an Electric Field on the Frequency Dependence of the Generation-Recombination Noise in Boron-Doped Silicon. (E) E. E. Godik and M. I. Molchanov. *J.* 2958 (1966) [7, 3664 (1965)]

GOGADZE, G. A.

Oscillations of the Tunneling Current from Thin Metal Films. (T) G. A. Gogadze and I. O. Kulik. *J.* 345 (1965) [7, 432 (1965)]

GOGANOV, D. A.

X-Ray Spectra of Silicon in Crystalline and Glassy Quartz and in Lithium Silicate Glasses. (E) O. A. Ershov, D. A. Goganov, and A. P. Lukirskii. *J.* 1903 (1966) [7, 2355 (1965)]

GOLIKOVA, O. A.

Electrical Properties of Titanium Carbide. (E) O. A. Golikova, A. I. Augustinik, G. M. Klimashin, and L. V. Kozlovskii. *J.* 2317 (1966) [7, 2860 (1965)]

GOLIKOVA, O. A.

Electrical Properties of Carbides of Transition-Metals in Group IV. (E) O. A. Golikova, A. I. Augustinik, G. M. Klimashin, L. V. Kozlovskii, S. S. Ordan'yan, and V. A. Snetkova. *J.* 2995 (1966) [7, 3698 (1965)]

GOL'TSMAN, B. M.

Microsegregation in Bismuth Telluride. (E) B. M. Gol'tsman and S. D. Prokhorova. *J.* 1023 (1965) [7, 1265 (1965)]

GOLUBEV, G. P.

Energy of Ionization by Electrons in Germanium and Silicon Carbide Crystals. (E/T) G. P. Golubev, V. S. Vavilov, and V. D. Egorov. *J.* 3000 (1968) [7, 3702 (1965)]

GOLUBEVA, N. G.

The Spin-Phonon Width of the Exchange Resonance Line. (T) G. M. Genkin and N. G. Golubeva. *J.* 785 (1965) [7, 989 (1965)]

GOLUBKOV, A. V.

Magnetic Susceptibility of Samarium Monosulfide. (E/T) V. E. Adamyan, A. V. Golubkov, and G. M. Loginov. *J.* 239 (1965) [7, 301 (1965)]

GOLUBKOV, A. V.

Transport Mechanism in Samarium Sulfide. (E/T) A. V. Golubkov, E. V. Goncharova, V. P. Zhuzhe, and I. G. Manolova. *J.* 1963 (1966) [7, 2430 (1965)]

GOLUBKOV, A. V.

Investigation of the Magnetic Susceptibility of Neodymium Chalcogenides. (E) V. E. Adamyan, A. V. Golubkov, G. M. Loginov, and V. N. Fedorov. *J.* 2715 (1966) [7, 3372 (1965)]

GOMOYUNOVA, M. V.

Inelastic Scattering of Electrons by Alkali-Halide Compounds. (T/E) M. V. Gomoynova and N. A. Leshnov. *J.* 311 (1968) [7, 387 (1965)]

GOMOYUNOVA, M. V.

Secondary Electron Emission from Alkali-Halide Compounds. (E) M. V. Gomoynova and N. A. Leshnov. *J.* 316 (1965) [7, 394 (1965)]

GOMOYUNOVA, M. V.

Energy Spectra of Fast Secondary Electrons Emitted by Alkali-Halide Compounds. (E) M. V. Gomoynova and N. A. Leshnov. *J.* 2427 (1966) [7, 2995 (1965)]

GONCHAROV, L. A.

Radiative Recombination in Germanium Crystals Having a High Density of Dislocations. (E/T) A. A. Gippius, V. S. Vavilov, L. A. Goncharov, and M. S. Murashov. *J.* 513 (1965) [7, 643 (1965)]

GONCHAROVA, E. V.

Transport Mechanism in Samarium Sulfide. (E/T) A. V. Golubkov, E. V. Goncharova, V. P. Zhuzhe, and I. G. Manolova. *J.* 1963 (1966) [7, 2430 (1965)]

GORBACHEV, V. V.

Investigation of the Thermal Vibrations of the Atoms in Copper by Neutron Spectrometry. (E) E. Z. Vintalnik, V. V. Gorbachev, and P. L. Gruzina. *J.* 296 (1965) [7, 367 (1965)]

GORBACHEV, V. V.

Phonon Frequencies Along the [100] Direction in the Nickel Lattice. (E/T) E. Z. Vintalnik and V. V. Gorbachev. *J.* 1547 (1965) [7, 1910 (1965)]

GORBAN', A. P.

Investigation of the Effect of Photocurrent Trapping at the Surface of Silicon. (E/T) V. G. Litovchenko, A. P. Gorban', and V. P. Kovbasyuk. *J.* 449 (1965) [7, 565 (1965)]

GORBAN', I. S.

Luminescence Relaxation and Capture Processes in Silicon Carbide Crystals. (E) I. S. Gorban' and Yu. M. Suleimanov. *J.* 1035 (1968) [7, 1276 (1965)]

GORBAN', I. S.

Properties of the Fine Structure of the Absorption Spectrum of Gallium Phosphide Crystals. (E) I. S. Gorban' and V. M. Kosarev. *J.* 2934 (1966) [7, 3641 (1965)]

GORBAN', I. S.

Line and Band Luminescence Spectra of α -SiC (6H) Crystals. (E) I. S. Gorban', G. I. Mishinova, and Yu. M. Suleimanov. *J.* 2991 (1968) [7, 3694 (1965)]

GORBATYI, N. A.

The Behavior of Adsorbed Cs Films on Single-Crystal Spikes of Ta and Ta₂C. (E) N. A. Gorbatiy and E. M. Ryabchenko. *J.* 921 (1965) [7, 1150 (1965)]

GORELIK, S. S.

X-Ray Characteristic Temperature of a Germanium-Silicon Solid Solution. (T/E) Ya. S. Umanakii, V. I. Prilepskii, and S. S. Gorelik. *J.* 1802 (1966) [7, 2235 (1965)]

GORELIK, S. S.

An Investigation of Order in an Equiatomic Germanium-Silicon Solid Solution by Measurement of Diffuse X-Ray Scattering. (E) Ya. S. Umanakii, V. I. Prilepskii, and S. S. Gorelik. *J.* 2162 (1966) [7, 2673 (1965)]

GORODETSKII, D. A.

The Structure of Barium Oxide Films on the (110) Face of a Tungsten Single Crystal. (E) D. A. Gorodetskiy and Yu. P. Mel'nik. *J.* 2248 (1966) [7, 2750 (1965)]

GORODETSKII, I. Ya.

Temperature Dependences of the Cross Sections for the Capture of Electrons by Recombination Centers in CdS and CdSe. (E) M. K. Sheldman, I. Ya. Gorodetskiy, and I. B. Ermolovich. *J.* 2838 (1968) [7, 3134 (1965)]

GORODETSKII, S. M.

A Study of Photoconductivity in Heavily Doped p-Silicon. (T/E) A. A. Vol'zhan, S. M. Gorodetskiy, and V. K. Subashiev. *J.* 53 (1965) [7, 75 (1965)]

GORODETSKII, S. M.

X-Ray and Optical Investigations of $GaAs_{1-x}P_x$ Crystals. (E) S. A. Abgaryan, S. M. Gorodetskiy, T. B. Zhukova, A. I. Zaslavskiy, A. V. Lishina, and V. K. Subashiev. *J.* 153 (1965) [7, 200 (1965)]

GORYAGA, A. N.

Electrical Resistance Anomaly in the Region of the Compensation Temperature in the Ferrite $NiFe_{1-x}V_xO_4$. (E/T) K. P. Belov, A. N. Goryaga, and N. V. Volkova. *J.* 378 (1965) [7, 474 (1965)]

GORYUNOVA, N. A.

Electric and Photoelectric Properties of $ZnS_{1-x}P_x$. (E) N. A. Goryunova, F. P. Kosmanov, D. N. Nasledov, V. V. Negreskul, Yu. V. Rud', and S. V. Slobodnikov. *J.* 1060 (1965) [7, 1312 (1965)]

GORYUNOVA, N. A.

Some Properties of p-Type $CdS_{1-x}As_x$. (E) V. V. Galazanov, N. A. Goryunova, N. M. Korshak, S. Mamaev, and A. Nazarov. *J.* 2949 (1966) [7, 3635 (1966)]

GOVORUKHINA, I. A.

Interpolation Formulas for the Cold Pressing of Materials. (T/E) N. N. Kalidkin and I. A. Govorukhina. *J.* 287 (1965) [7, 355 (1965)]

GRAEVSKAYA, Ya. I.

Determination of the Characteristic Temperature of Copper and Cu-Sn Alloys from Measurements of the Temperature Coefficient of X-Ray Scattering. (E) Ya. I. Graevskaya, V. I. Iveronova, and V. P. Tarasova. *J.* 1083 (1965) [7, 1342 (1965)]

GRANTSYNA, E. K.

The Electrical Conductivity of Inversion Layers Formed in n-Silicon by Bombardment with Boron Ions. (T) P. V. Pavlov, E. I. Zorin, D. I. Tetelbaum, and E. K. Grantsyna. *J.* 2386 (1965)

GRASYUK, A. Z.

Laser Action in CdS Induced by Two-Photon Optical Excitation from a Ruby Laser. (E) N. G. Basov, A. Z. Grasyuk, I. G. Zubarev, and V. A. Kaulin. *J.* 2932 (1966) [7, 3639 (1966)]

GRECHUSHNIKOV, B. N.

Electron Paramagnetic Resonance of Atomic Hydrogen in Beryllium. (T/E) V. F. Koryagin and B. N. Grechushnikov. *J.* 2010 (1966) [7, 2496 (1966)]

GRECHUSHNIKOV, B. N.

Spectra of Trivalent Chromium Complexes $AlCl_3 \cdot 6H_2O$ Crystals. (E) I. I. Antipova-Kirataeva, B. N. Grechushnikov, V. F. Koryagin, and Yu. I. Kutsenko. *J.* 2192 (1966) [7, 2712 (1966)]

GRECHUSHNIKOV, V. N.

Paramagnetic Resonance of the Mn^{2+} Ion in Synthetic Octahedral $CdCO_3$. (E) V. N. Grechushnikov and V. F. Koryagin. *J.* 2527 (1966) [7, 3123 (1966)]

GREDESKUL, S. A.

Theory of Sound Amplification in Piezoelectrics by a Beam of Charged Particles. (T) F. G. Bass, S. A. Gredeksul, and M. I. Kaganov. *J.* 2496 (1966) [7, 3090 (1966)]

GREZNEV, Yu. S.

Electron Paramagnetic Resonance of Terbium in CeO_2 . (E) Yu. S. Greznov, M. M. Zaripov, and V. G. Stepanov. *J.* 2937 (1966) [7, 3644 (1966)]

GRIBNIKOV, Z. S.

Theory of Current Carrier Injection in "Long" Diodes. (T) Z. S. Gribnikov. *J.* 191 (1965) [7, 251 (1965)]

GRIBNIKOV, Z. S.

Diffusion of "Hot" Electrons in n-n Heterojunctions. (T) Z. S. Gribnikov and V. I. Melnikov. *J.* 1612 (1966) [7, 1997 (1966)]

GRIBNIKOV, Z. S.

Injection and Extraction of Hot Electrons in n-n Heterojunctions with Rapid Maximalization of the Electron Gas. (T) Z. S. Gribnikov and V. I. Melnikov. *J.* 2364 (1966) [7, 2912 (1966)]

GRIDIN, V. A.

Nonsteady-State Photomagnetic Effect in Germanium. (E/T) V. A. Gridin and V. F. Eskin. *J.* 585 (1965) [7, 730 (1965)]

GRIGAS, B. P.

Thermally Stimulated Thermal EMF. (T/E) B. P. Grigas and M. P. Mikalkevichyus. *J.* 2942 (1966) [7, 3649 (1966)]

GRIGOR'EV, N. N.

Temperature and Mobility of Hot Electrons in Polar Semiconductors. (T) N. N. Grigor'ev, I. M. Dykman, and P. M. Tomchuk. *J.* 2719 (1966) [7, 3378 (1966)]

GRIGOR'EV, S. B.

Time Dependence of Equilibrium Magnetization of Nuclear Spin Systems Under the Influence of Ultrasound. (E/T) A. M. Sazonov and S. B. Grigor'ev. *J.* 1120 (1965) [7, 1389 (1965)]

GRIGOR'EV, S. B.

Effect of Ultrasound Excitation on the Nuclear Magnetization of a Paramagnet. (T) S. B. Grigor'ev and A. M. Sazonov. *J.* 2334 [7, 2877 (1965)]

GRIGORYAN, N. A.

Structure and Magnetic Properties of $BiMnO_3$. (E) V. A. Bokov, I. E. Myl'nikova, S. A. Khashev, M. F. Bryzhina, and N. A. Grigoryan. *J.* 2993 (1966) [7, 3695 (1966)]

GRINBERG, A. A.

Indirect Optical Transitions in Semiconductors Involving Carrier Interaction. (T) S. M. Ryvkin, A. A. Grinberg, and N. I. Kramer. *J.* 1766 (1966) [7, 2195 (1966)]

GRINBERG, A. A.

The Possibility of Negative Absorption in the Case of Indirect Transitions Involving Carriers. (T) A. A. Grinberg, A. A. Rogachev, and S. M. Ryvkin. *J.* 1774 (1966) [7, 2206 (1966)]

GRISHINA, L. V.

The Temperature Dependence of the Magnetization of Ferrites at Low Temperatures. (E/T) V. E. Rode, R. Germann, and L. V. Grishina. *J.* 1123 (1965) [7, 1393 (1965)]

GROSS, E. F.

Narrow-Line Luminescence of Hexagonal ZnS Crystals. (E/T) E. F. Gross, L. G. Suslina, and V. G. Mokrov. *J.* 229 (1965) [7, 291 (1965)]

GROSS, E. F.

Afterglow and the Dependence of the Edge Luminescence Spectrum of CdS Single Crystals on the Excitation Intensity. (E/T) E. F. Gross, B. S. Rashidin, and S. A. Fernopogorov. *J.* 444 (1965) [7, 558 (1965)]

GROSS, E. F.

Indirect Excitons and Phonon Spectrum of Cu_2O . (E/T) V. T. Agekyan, E. F. Gross, and A. A. Kaplyanskiy. *J.* 623 (1965) [7, 781 (1965)]

GROSS, E. F.

Luminescence of Donor-Acceptor Pairs in GaAs Crystals Doped with Cd. (E) E. F. Gross, V. I. Safarov, and V. E. Sedov. *J.* 1785 (1966) [7, 2217 (1966)]

GRUZIN, P. L.

Investigation of the Thermal Vibrations of the Atoms in Copper by Neutron Spectrometry. (E) E. Z. Vintalkin, V. V. Gorbachev, and P. L. Gruzin. *J.* 296 (1965) [7, 367 (1965)]

GUBANOV, A. I.

On the Dynamics of Crystals Having the Rutile Structure. (T) A. I. Gubanov and M. S. Sher. *J.* 2124 (1966) [7, 2626 (1966)]

GUBANOV, A. I.

Calculation of the Energy of Introduction and the Activation Energy for Diffusion of Hydrogen in Metals. (T) A. I. Gubanov and V. K. Nikulin. *J.* 2184 (1966) [7, 2701 (1966)]

GUBANOV, A. I.

LCAO Method for Arbitrary System of Atoms. (T) A. I. Gubanov. *J.* 2547 (1966) [7, 3145 (1966)]

GUENOK, E. P.

Influence of Polar Liquid Vapors on the Dielectric Properties of Barium Titanate Single Crystals Containing Additives. (E) E. P. Guenok and A. Yu. Kuzin. *J.* 2300 (1966) [7, 2845 (1966)]

GULYAEV, Yu. V.

Resonance Amplification of Ultrasonic Rayleigh Waves by a Beam of Charged Particles Passing Near the Surface of a Crystal. (T) Yu. V. Gulyaev and P. E. Zil'berman. *J.* 2243 (1966) [7, 2772 (1966)]

GULYAMOV, K.

Influence of High Hydrostatic Pressure on the Photoconductivity of CdS Single Crystals. (E/T) K. Gulyamov, N. A. Tikhomirova, and V. M. Fridkin. *J.* 834 (1965) [7, 1037 (1965)]

- GULYAMOV, K.**
Photoconductivity of HgI₂ Single Crystals at High Hydrostatic Pressures. (E) K. Gulyamov, N. A. Tikhomirova, I. D. Turyanitsa, and V. M. Frickin. *J.* 2201 (1966) [7, 2723 (1965)]
- GUMEN, N. M.**
Thermomechanical Treatment of Cobalt Ferrite. (E) B. Ya. Pines and N. M. Gumen. *J.* 284 (1965) [7, 351 (1965)]
- GUREVICH, A. G.**
Ferromagnetic Resonance in Titanium Garnet Doped with Terbium. (E) V. I. Bolov'ev and A. G. Gurevich. *J.* 1420 (1965) [7, 1761 (1965)]
- GUREVICH, L. E.**
Anomalous Hall and Nernst Effects in Metals Containing Paramagnetic Additions. (T) L. E. Gurevich and I. N. Yassievich. *J.* 462 (1965) [7, 582 (1965)]
- GUREVICH, L. E.**
Thermomagnetic Waves in Solids and Methods for Their Experimental Determination. (T) L. E. Gurevich and B. L. Gel'mont. *J.* 560 (1965) [7, 697 (1965)]
- GUREVICH, V. L.**
Theory of the Electroacoustic Effect in Semiconductors of the n-G and n-Si Types. (T) S. V. Gantsevich and V. L. Gurevich. *J.* 1838 (1966) [7, 2400 (1965)]
- GUREVICH, V. L.**
Theory of Sound Generation in Piezoelectric Semiconductors. (T) V. L. Gurevich and B. D. Laikhtman. *J.* 2603 (1966) [7, 3218 (1965)]
- GUREVICH, Yu. Ya.**
Calculation of the Dynamic Surface-Charging Curve of Semiconductors. (T) V. A. Tyagal and Yu. Ya. Gurevich. *J.* 7 (1965) [7, 12, (1965)]
- GURGENISHVILI, G. E.**
Quantum Oscillations of Nuclear Relaxation Time in Semimetals. (T) G. E. Gurgenishvili and G. R. Khutsishvili. *J.* 1078 (1965) [7, 1335 (1965)]
- GURIEVA, E. A.**
Thermal Conductivity of Solid Solutions Based on Bismuth Telluride. (E) E. A. Gurieva, A. I. Zaslavskii, V. A. Kitasov, and I. A. Smirnov. *J.* 978 (1965) [7, 1221 (1965)]
- GURVICH, Yu. A.**
Anisotropic Absorption of Electromagnetic Waves by Hot Carriers in Semiconductors. (E) E. M. Gershenson, Yu. A. Gurevich, and L. B. Litvak-Gorskaya. *J.* 1111 (1965) [7, 1378 (1965)]
- GURVICH, Yu. A.**
Anisotropic Scattering in Semiconductors. (T/E) Yu. A. Gurevich. *J.* 1372 (1965) [7, 1696 (1965)]
- GURVICH, Yu. A.**
On the Current-Carrier Interaction in Semiconductors. (T/E) E. M. Gershenson, Yu. A. Gurevich, and R. I. Rabinovich. *J.* 1379 (1965) [7, 1706 (1965)]
- GURZHI, R. N.**
Second Sound in Solids. (T) R. N. Gurzhi. *J.* 2838 (1966) [7, 3515 (1965)]
- GUSAKOV, V. S.**
Current Oscillations in Compensated Germanium and Silicon. (E) B. S. Muravskii, V. S. Gusakov, N. G. Kruzhilina, and A. G. Shved. *J.* 2748 (1966) [7, 3412 (1965)]
- GUSEINOV, N. G.**
Rotation of the Plane of Polarization in Tetragonal Crystals with MnF₂ Type Structure. (T) N. G. Guseinov and M. N. Abdullayev. *J.* 1404 (1965) [7, 1739 (1965)]
- GUSEINOV, N. G.**
Theory of Thermal Expansion in Magnetically Ordered Crystals. (T) N. G. Guseinov and Yu. M. Seidov. *J.* 2929 (1966) [7, 3635 (1965)]
- GUSEV, I. A.**
Mossbauer Effect in Iodine Antimonide. (E/T) G. N. Belozerskii, I. A. Gusev, A. N. Murin, and Yu. A. Nemilov. *J.* 1012 (1965) [7, 1254 (1965)]
- GUSEV, V. M.**
Silicon Solar Cells Produced by Ion Bombardment. (E) V. M. Gusev, V. V. Timov, M. I. Guseva, and V. I. Kurimnyi. *J.* 1673 (1966) [7, 2077 (1965)]
- GUSEVA, G. I.**
Transport Phenomena in n-Type InSb in the Case of Inelastic Polar Scattering of Electrons. (T/E) G. I. Guseva and A. K. Zvezdin. *J.* 1513 (1965) [7, 1879 (1965)]
- GUSEVA, M. I.**
Silicon Solar Cells Produced by Ion Bombardment. (E) V. M. Gusev, V. V. Timov, M. I. Guseva, and V. I. Kurimnyi. *J.* 1673 (1966) [7, 2077 (1965)]
- GUTKIN, A. A.**
Spectral Characteristics of Gallium Arsenide Photoelements. (E) A. A. Gutkin, D. N. Nasledov, and V. E. Sedov. *J.* 58 (1965) [7, 81 (1965)]
- GUTKIN, A. A.**
Influence of the Orientation of GaAs Crystals on the Depth and Photoelectric Properties of Diffused p-n Junctions. (E) A. A. Gutkin, M. B. Kagan, V. E. Sedov, and Yu. I. Chernov. *J.* 2046 (1966) [7, 2538 (1965)]
- GVLAVA, M. F.**
Investigation of the Self-Absorption Edge of Boron. (E) Sh. Z. Dzhamagidze, R. R. Shvangiradze, Yu. A. Mal'tsev, and M. F. Gvilava. *J.* 1259 (1965) [7, 1563 (1965)]
- IGLITSIN, M. I.**
Recombination of Nonequilibrium Charge Carriers in InAs Single Crystals. (E) M. I. Iglitsin and E. V. Solov'eva. *J.* 2770 (1966) [7, 3433 (1965)]
- IGLITSYN, M. I.**
Recombination of Nonequilibrium Charge Carriers at Cadmium Ions in Germanium. (E/T) M. I. Iglitsyn and E. S. Yurova. *J.* 723 (1965) [7, 912 (1965)]
- IGNATCHENKOV, V. A.**
Boundary Conditions for Magnetoelastic Systems. (T) V. A. Ignatchenko and E. V. Kuz'min. *J.* 1385 (1966) [7, 1662 (1965)]
- IGNAT'YEV, M. I.**
Accumulation of F-Centers in Sulfur-Doped KCl. (E) I. Ya. Melik-Galkasyan, L. I. Roshchina, and M. I. Ignat'eva. *J.* 2802 (1966) [7, 3465 (1965)]
- IMENKOV, A. N.**
Recombination Radiation of p-n Tunnel Junctions in GaAs. (E) A. N. Imenkov, M. M. Kozlov, S. S. Meskin, D. N. Nasledov, V. N. Ravich, and B. V. Tsarenkov. *J.* 504 (1965) [7, 634 (1965)]
- IMENKOV, A. N.**
Electroluminescence Spectra of Strongly Degenerate Gallium Arsenide. (E/T) A. N. Imenkov, M. M. Kozlov, S. S. Meskin, D. N. Nasledov, V. N. Ravich, and B. V. Tsarenkov. *J.* 618 (1965) [7, 775 (1965)]
- IMENKOV, A. N.**
Electron-Hole Transition in a Highly Degenerate Semiconductor at Excessive Current Densities. (T/E) A. N. Imenkov, M. M. Kozlov, D. N. Nasledov, and B. V. Tsarenkov. *J.* 1190 (1965) [7, 1480 (1965)]
- IMENKOV, A. N.**
Influence of Impurities on the Recombination Radiation Spectra of Gallium Arsenide. (E) A. N. Imenkov, L. M. Kogan, M. M. Kozlov, S. S. Meskin, D. N. Nasledov, and B. V. Tsarenkov. *J.* 2519 (1966) [7, 3115 (1965)]
- IOFFE, I. V.**
Explanation of the Observed Field-Distribution Oscillations in Germanium with an Injecting Contact. (T/E) I. V. Ioffe and A. M. Kovatskii. *J.* 2035 (1966) [7, 2527 (1965)]
- IOFFE, V. A.**
EPR Spectra of the Cd³⁺ Ion in Single Crystals of CoO. (E) I. V. Vinokurov, Z. N. Zonn, and V. A. Ioffe. *J.* 814 (1965) [7, 1012 (1965)]
- IOFFE, V. A.**
The Relationship Between Electrical Conductivity and the State of the V⁴⁺ Ions in V₂O₅ Crystals. (E) L. V. Dmitrieva, V. A. Ioffe, and I. B. Patrino. *J.* 2228 (1966) [7, 2754 (1965)]
- IOLIN, E. M.**
Effect of a Two-Level Impurity System on the Phonon Spectrum of a Crystal and on One-Quantum Inelastic Neutron Scattering. (T) E. M. Iolin. *J.* 1198 (1965) [7, 1490 (1965)]

IONESCU-BUJOR, S.

Certain Properties of HgTe Single Crystals Grown from the Melt. (E) E. Cruceanu, D. Niculescu, N. Nistor, I. Stamatescu, and S. Ionescu-Bujor. *J.* 1458 (1965) [*J.* 1808 (1965)]

IONESCU-BUJOR, S.

Electrical Properties of Some Solid Solutions of the $\text{Zn}_x\text{Hg}_{1-x}\text{Te}$ System. (E/T) E. Cruceanu, D. Niculescu, I. Stamatescu, N. Nistor, and S. Ionescu-Bujor. *J.* 1646 (1966) [*J.* 2039 (1965)]

JORDANISHVILI, E. K.

Thermal Conductivity of Doped Si-Ge Solid Solutions. (E) R. S. Erofeev, E. K. Jordanishvili, and A. V. Petrov. *J.* 2470 (1966) [*J.* 3064 (1965)]

IOSILEVSKII, YA. A.

On the Possibility of Reducing the Dynamic Problem of a Diatomic Lattice to a Dynamic Problem of a Monatomic Lattice. (T) Ya. A. Iosilevskii. *J.* 704 (1965) [*J.* 985 (1965)]

IPATOVA, I. P.

The Faraday Effect for "Hot" Electrons in Germanium and Silicon. (T) I. P. Ipatova, R. F. Kazarinov, and A. V. Subashiev. *J.* 1714 (1966) [*J.* 2129 (1965)]

ISAEV, M. R.

Formation of Breakdown in Silicon p-n Junctions. (E) M. R. Isaev. *J.* 2442 (1966) [*J.* 3015 (1965)]

ISCHCHUK, V. A.

Investigation of the Interaction of Oxygen with Tungsten by the Method of Electron-Stimulated Desorption. (T/E) Ya. P. Zingerman and V. A. Ischchuk. *J.* 173 (1965) [*J.* 227 (1965)]

ISCHCHUK, V. A.

Some Characteristics of the Interaction of Oxygen with the Surface of a Tungsten Single Crystal. (E) Ya. P. Zingerman, V. A. Ischchuk, and T. A. Krutina. *J.* 2078 (1966) [*J.* 2569 (1965)]

ISMAILZADE, I. G.

Determination of the Curie Point of the Ferroelectrics YbMnO_3 and YbMnO_2 . (E/T) I. G. Ismailzade and S. A. Kizhaev. *J.* 236 (1965) [*J.* 298 (1965)]

ISUPOV, V. A.

Antiferroelectric Properties of Lead Orthovanadate. (E) V. A. Isupov, N. N. Krainik, I. D. Fridberg, and I. E. Zelenkova. *J.* 944 (1965) [*J.* 1051 (1965)]

ISUPOV, V. A.

Antiferroelectric Properties of Lead Silicate Pb_2SiO_6 . (E) V. A. Isupov. *J.* 1789 (1966) [*J.* 2221 (1965)]

IVAKHNO, V. N.

The Effect of Pressure on the Spectral Distribution of the Photoeffect in InSb. (E) V. N. Ivakhno, B. V. Izvozhnikov, and I. A. Taksami. *J.* 2944 (1966) [*J.* 3650 (1965)]

IVANOV, I. V.

Nonlinear Properties of a Ferroelectric Ceramic in Strong Microwave Fields. (E) I. V. Ivanov and N. A. Morozov. *J.* 2923 (1966) [*J.* 3627 (1965)]

IVANOV, M. A.

Spectral Distribution of Localized Vibrations. (T) M. A. Ivanov, L. B. Kvashnina, and M. A. Krivoglas. *J.* 1052 (1966) [*J.* 2047 (1965)]

IVANOV, Yu. L.

Radiative Recombination at Edge Dislocations in Germanium. (E/T) Yu. L. Ivanov. *J.* 629 (1965) [*J.* 788 (1965)]

IVANOV, Yu. M.

The Coefficient γ in the Equation for Long-Term Strength. (E/T) Yu. M. Ivanov. *J.* 2037 (1966) [*J.* 2529 (1965)]

IVANOV-OMSKII, V. I.

Concentration Dependence of the Forbidden-Band Width in Alloys of InSb with GaSb. (E) I. S. Baikin, V. I. Ivanov-Omskii, and B. T. Kolomiets. *J.* 1019 (1965) [*J.* 1261 (1965)]

IVANOVA, S. V.

Interaction of Lithium and Nickel in Germanium. (E/T) V. V. Ostrobodorova and S. V. Ivanova. *J.* 1825 (1965) [*J.* 1890 (1965)]

IVERONOVA, V. I.

Determination of the Characteristic Temperature of Copper and Cu-Zn Alloys from Measurements of the Temperature Coefficient of X-Ray Scattering. (E) Ya. I. Graevskaya, V. I. Iveronova, and V. P. Tarasova. *J.* 1063 (1965) [*J.* 1342 (1965)]

IZMAILOV, S. V.

Elastic Scattering of Excitons and Electrons by Neutral Vacancy Pairs in Alkali-Halide Crystals. (T) S. V. Izmailov and G. A. Rozman. *J.* 2437 (1966) [*J.* 3008 (1965)]

IZVOZHNIKOV, B. V.

The Effect of Pressure on the Spectral Distribution of the Photoeffect in InSb. (E) V. N. Ivakhno, B. V. Izvozhnikov, and I. A. Taksami. *J.* 2944 (1966) [*J.* 3650 (1965)]

IZVOZHNIKOV, V. A.

Photoconductor Oscillations in PbO Photoresistors. (T) V. A. Izvozhnikov, M. S. Kosman, and K. A. Chernyavskii. *J.* 1248 (1965) [*J.* 1532 (1965)]

IZVOZHNIKOV, V. A.

Certain Characteristics of the Kinetics of Nonequilibrium Conductivity in Lead Oxide. (E) M. A. Galanina and V. A. Izvozhnikov. *J.* 2939 (1966) [*J.* 3646 (1965)]

KADOMTSEVA, A. N.

The Electrical Properties of Yttrium Ferrites Having a Garnet Structure. (E/T) K. P. Belov, M. A. Zaitseva, A. N. Kadomtseva, and T. L. Ovchinnikov. *J.* 381 (1965) [*J.* 477 (1965)]

KAGAN, A. S.

Finding the Distribution Function of a Material Over the Lattice Period. (T) A. S. Kagan and V. M. Snovidov. *J.* 1643 (1966) [*J.* 2036 (1965)]

KAGAN, M. B.

Influence of the Orientation of GaAs Crystals on the Depth and Photoelectric Properties of Diffused p-n Junctions. (E) A. A. Gutkin, M. B. Kagan, V. E. Sedov, and Ya. I. Chernov. *J.* 2046 (1966) [*J.* 2538 (1965)]

KAGAN, Yu. M.

A Contribution to the Theory of the Anomalous Hall Effect in Ferromagnetics. (T/E) Yu. M. Kagan and L. A. Maksimov. *J.* 422 (1965) [*J.* 530 (1965)]

KAGAN, Yu. M.

Anisotropy of the Even Photomagnetic Effect in Germanium. (T) Yu. M. Kagan and V. N. Sobakin. *J.* 3074 (1966) [*J.* 2565 (1965)]

KAGANOV, M. I.

Role of Thermal Conductivity and Heat Transfer in Magnetic Susceptibility. (T/E) M. I. Kaganov and L. D. Filatova. *J.* 1690 (1966) [*J.* 2098 (1965)]

KAGANOV, M. I.

Theory of Sound Amplification in Piezoelectrics by a Beam of Charged Particles. (T) F. G. Bass, S. A. Gradshteyn, and M. I. Kaganov. *J.* 2496 (1966) [*J.* 3099 (1965)]

KADANOV, V. I.

Band Model of SnTe . (E/T) B. A. Efimova, V. I. Kadanov, B. Ya. Moizhes, and I. A. Chernik. *J.* 2032 (1966) [*J.* 2534 (1965)]

KALASHNIKOV, S. G.

The Possibility of Recombination Instability in Semiconductors. (T) V. L. Bonch-Bruyevich and S. G. Kalashnikov. *J.* 599 (1965) [*J.* 750 (1965)]

KALASHNIKOV, S. G.

Effect of the Spectral Composition of Illumination on the Amplification of Ultrasound in Cadmium Sulfide. (E/T) S. G. Kalashnikov, A. I. Morozov, B. A. Stankovskii, and L. A. Sysoev. *J.* 1782 (1966) [*J.* 2215 (1965)]

KALASHNIKOV, V. P.

Polarization of Nuclear Spins of Semiconductors by Direct Current. (T) V. P. Kalashnikov. *J.* 2574 (1966) [*J.* 3180 (1965)]

KALITKIN, N. N.

Interpolation Formulas for the Cold Pressing of Materials. (T/E) N. N. Kalitkin and I. A. Govorukhina. *J.* 287 (1965) [*J.* 355 (1965)]

KAL'VENAS, S. P.

Recombination of Hot Carriers Through Recombination Centers on the Surface of Germanium. (E) S. P. Kal'venas and Yu. K. Pocheba. *J.* 2936 (1966) [*J.* 3513 (1965)]

KAPLYANSKII, A. A.

Indirect Excitons and Phonon Spectrum of Cu_2O . (E/T) V. T. Agekyan, E. F. Grossa, and A. A. Kaplyanskii. *J.* 623 (1965) [*J.* 781 (1965)]

- KAPLYANSKII, A. A.**
Deformation Splitting of the Principal Exciton Line in the Reflection Spectrum of ZnTe. (E/T) A. A. Kaplyanskii and L. G. Sushina. *J.* 1981 (1966) [7, 2327 (1965)]
- KARAMYAN, A. A.**
Infrared Absorption Spectra of Perovskite-Type Ferroelectric Crystals. (E) A. I. Stekhanov, A. A. Karamyan, and N. I. Astaf'ev. *J.* 119 (1965) [7, 157 (1965)]
- KARKHANIN, Yu. I.**
Investigation of the Photoconductivity of Cu₂O in the Temperature Range from +20 to +150°C. (E/T) Yu. V. Vorob'ev and Yu. I. Karkhanin. *J.* 1500 (1965) [7, 1865 (1965)]
- KARKHANIN, Yu. I.**
Photocurrent Oscillations in High-Resistance GaAs. (E) Yu. I. Karkhanin and O. V. Tretyak. *J.* 2787 (1966) [7, 3451 (1965)]
- KARLOV, N. V.**
Inversion and Line Width of Paramagnetic Resonance Absorption in Chromium-Doped Rutile in the 20-cm Wavelength. (E/T) N. V. Karlov and B. B. Krynetaki. *J.* 2321 (1966) [7, 2865 (1965)]
- KARNAUKHOV, V. G.**
Stimulated Radiation from Diffused p-n Junctions in Gallium Antimonide. (E) L. V. Kryukova, V. G. Karnaukhov, and L. I. Pashchikh. *J.* 3757 (1966) [7, 3421 (1965)]
- KARPOV, S. V.**
Infrared Spectra of Potassium Nitrate at Phase Transitions. (E) S. V. Karpov and A. A. Shalitin. *J.* 2761 (1966) [7, 3424 (1965)]
- KARPUKHIN, A. A.**
Interaction Between an Elastic Surface Wave and Semi-Infinite Plasma. (T) S. K. Savvinykh, A. A. Karpukhin, and B. S. Klyachko. *J.* 2585 (1966) [7, 3194 (1965)]
- KARTMAZOV, G. N.**
Application of the Method of Secondary Ion-Ion Emission to the Study of the Interaction of Oxygen with a Niobium Surface. (E) V. I. Shvachko, B. T. Nadykto, Ya. M. Fogel', B. M. Vasyutinskii, and G. N. Kartmazov. *J.* 1572 (1966) [7, 1944 (1965)]
- KASHLEV, Yu. A.**
Absorption of Ultrasound in Metals. (T) Yu. A. Kashlev. *J.* 1543 (1965) [7, 1906 (1965)]
- KASK, A. A.**
Photoemission of Electrons from p-Type GaAs. (E/T) A. N. Arsen'eva-Geil' and A. A. Kask. *J.* 952 (1965) [7, 1187 (1965)]
- KASK, N. E.**
On the New Electron Paramagnetic Resonance Spectrum of Neodymium in CaF₂ Single Crystals. (E) N. E. Kask and L. S. Kornienko. *J.* 497 (1965) [7, 625 (1965)]
- KASK, N. E.**
Electron Paramagnetic Resonance of Irradiated Single Crystals of Fluorite Containing a Neodymium Addition. (E) N. E. Kask, L. S. Kornienko, and A. O. Rybalovskii. *J.* 532 (1965) [7, 663 (1965)]
- KASK, N. E.**
EPR Rhombic Spectra of Dy³⁺ and Nd³⁺ Ions in CaF₂. (E) N. E. Kask, L. S. Kornienko, and A. O. Rybalovskii. *J.* 2614 (1966) [7, 3234 (1965)]
- KATANA, P. K.**
Theory of Thermal Ionization of Impurity Centers. (T) A. G. Cheban and P. K. Katana. *J.* 2213 (1966) [7, 2735 (1965)]
- KATRICH, G. A.**
Surface Conductivity of Gold-Doped Germanium. (E/T) G. A. Katrich, O. G. Sarbel, and D. T. Taraschenko. *J.* 1091 (1965) [7, 1352 (1965)]
- KATRICH, G. A.**
Influence of Light on the Surface Conductivity of Germanium Having a Clean Surface. (E) P. G. Borzyak, G. A. Katrich, and O. G. Sarbel. *J.* 2266 (1966) [7, 2803 (1965)]
- KATULIN, V. A.**
Laser Action in CdS Induced by Two-Photon Optical Excitation from a Ruby Laser. (E) N. G. Baov, A. Z. Grasyuk, I. G. Zubarev, and V. A. Katulin. *J.* 2932 (1966) [7, 3639 (1965)]
- KATYSHEV, A. N.**
Paramagnetic Resonance of Erbium and Europium in Synthetic Single Crystals of PbMoO₄. (E) A. A. Antipin, A. N. Katyshev, I. N. Kurkin, and L. Ya. Shekun. *J.* 1148 (1965) [7, 1425 (1965)]
- KAUFMAN, S. A.**
Some Characteristics of the Photoconductivity Kinetics in High-Resistivity n-Type Germanium Samples Doped with Gold. (E/T) S. A. Kaufman, K. M. Kulikov, N. P. Likhtman, and N. Sh. Khaikin. *J.* 668 (1965) [7, 837 (1965)]
- KAUFMAN, S. A.**
Cross Section for the Capture of Holes by Mercury and Zinc Ions in Germanium. (E) S. A. Kaufman and K. M. Kulikov. *J.* 2536 (1966) [7, 3132 (1965)]
- KAZANTSEV, A. P.**
Pulsation of Stimulated Emission from Solids. (T) B. L. Zhelnov, A. P. Kazantsev, V. L. Kolpashchikov, and V. S. Smirnov. *J.* 1416 (1965) [7, 1756 (1965)]
- KAZANTSEV, A. P.**
Stimulated Traveling-Wave Radiation in Lasers. (T) B. L. Zhelnov, A. P. Kazantsev, and V. S. Smirnov. *J.* 2276 (1966) [7, 2816 (1965)]
- KAZARINOV, R. F.**
Electromagnetic Theory of the Injection Laser. (T) R. F. Kazarinov, O. V. Konstantinov, V. I. Perel', and A. L. Efros. *J.* 1210 (1965) [7, 1506 (1965)]
- KAZARINOV, R. F.**
The Faraday Effect for "Hot" Electrons in Germanium and Silicon. (T) I. P. Ipatova, R. F. Kazarinov, and A. V. Subashiev. *J.* 1714 (1966) [7, 2129 (1965)]
- KESAMANYI, F. P.**
Electric and Photoelectric Properties of ZnSiP₂. (E) N. A. Goryunova, F. P. Kesamanyi, D. N. Nasledov, V. V. Negreskul, Yu. V. Rud', and S. V. Stobodchikov. *J.* 1060 (1965) [7, 1312 (1965)]
- KHABIBULLIN, B. M.**
The Theory of the Sensitivity of Quantum Counters. (T) U. Kh. Kopylov and B. M. Khabibullin. *J.* 1233 (1965) [7, 1535 (1965)]
- KHABIBULLIN, B. M.**
Effect of Interaction Through a Phonon Field on the Intensity of Paramagnetic Resonance Absorption. (T/E) B. M. Khabibullin. *J.* 1668 (1966) [7, 2070 (1965)]
- KHABIBULLIN, B. M.**
Spin-Lattice Relaxation Times in Spin Systems Containing Two Kinds of Paramagnetic Ions. (T) B. M. Khabibullin. *J.* 2350 (1966) [7, 2894 (1965)]
- KHACHATURYAN, A. G.**
Simultaneous Consideration of the Effects of Static Distortion, Short-Range Order, and Thermal Vibrations of Atoms in the Diffuse Scattering of X Rays by Polycrystalline Substitutional Solid Solutions. (T) S. V. Semenovskaya and A. G. Khachatryan. *J.* 2641 (1966) [7, 3270 (1965)]
- KHAIKIN, N. Sh.**
Some Characteristics of the Photoconductivity Kinetics in High-Resistivity n-Type Germanium Samples Doped with Gold. (E/T) S. A. Kaufman, K. M. Kulikov, N. P. Likhtman, and N. Sh. Khaikin. *J.* 668 (1965) [7, 837 (1965)]
- KHAKHANASHVILI, O. G.**
Relaxation Processes in Paramagnetic Resonance of U³⁺ and Tb³⁺ in CaF₂. (E) B. G. Berulava, T. I. Sanadze, and O. G. Khakhanashvili. *J.* 509 (1965) [7, 640 (1965)]
- KHALDEI, O. A.**
Decrease of the Critical Stresses for Dislocation Movement and Multiplication During Repeated Bending. (E) R. I. Garber, I. I. Soloshenko, and O. A. Khaldei. *J.* 2147 (1966) [7, 2655 (1965)]
- KHALILOV, Kh. M.**
Investigation of the Time and Temperature Dependences of the Strength of Amorphous Selenium. (E/T) S. A. Abasov, B. B. Kuliev, and Kh. M. Khalilov. *J.* 116 (1965) [7, 153 (1965)]
- KHALILOV, Kh. M.**
Influence of the Phosphorus Impurity on the Temperature and Time Dependences of the Strength of Selenium. (E/T) B. B. Kuliev, S. A. Abasov, and Kh. M. Khalilov. *J.* 1496 (1965) [7, 1860 (1965)]
- KHALILOV, Kh. M.**
Temperature Dependence of the Viscous Properties of Amorphous Selenium. (E) Kh. M. Khalilov and B. B. Kuliev. *J.* 2302 (1966) [7, 2847 (1965)]

- KHANSEVAROV, R. Yu.**
The Energy Structure of γ -Radiation Defects in Germanium. (E/T) T. V. Mashovets and R. Yu. Khansevarov. *J.* 245 (1965) [7, 308 (1965)]
- KHANSEVAROV, R. Yu.**
Energy Spectrum of Defects Formed in Indium Antimonide by γ -Irradiation at Low Temperatures. (E) T. V. Mashovets and R. Yu. Khansevarov. *J.* 1796 (1966) [7, 2229 (1966)]
- KHARADZE, G. A.**
Theory of Nuclear Magnetic Resonance in Ferrometals. (T) L. L. Bulshvili, N. P. Giorgadze, and G. A. Kharadze. *J.* 2258 (1966) [7, 2793 (1965)]
- KHARADZE, G. A.**
Acoustical Resonance in Magnetic Substances Having a Simple Helicoidal Structure. (T) L. L. Bulshvili, N. P. Giorgadze, and G. A. Kharadze. *J.* 2956 (1966) [7, 3662 (1965)]
- KHARAKHASH'YAN, E. G.**
EPR in Supercooled Solutions of Fe(III), Ru(III), and Os(III). (E) N. S. Garif'yanov and E. G. Kharakhsh'yan. *J.* 1033 (1965) [7, 1274 (1965)]
- KHARAKHORIN, F. F.**
Diffusion and Solubility of Copper in Lead Selenide. (E) F. F. Kharakhoria, D. A. Gambarova, and V. V. Aksekov. *J.* 2813 (1966) [7, 3481 (1965)]
- KHARITONOV, E. V.**
Theory of the Form of the Interband Magneto-optical Absorption Lines for the Case of Elastic Scattering. (T) L. I. Korovin and E. V. Kharitonov. *J.* 1740 (1966) [7, 2162 (1965)]
- KHARUS, G. I.**
The Nernst-Ettingshausen Effect in Doped n -Silicon. (T/E) L. I. Domanskaya, G. I. Kharus, and I. M. Taidil'kovskii. *J.* 32 (1965) [7, 46 (1965)]
- KHEIFETS, M. I.**
On the Interaction of Conduction Electrons with Lattice Vibrations in a Semiconductor. (T) M. I. Kheifets. *J.* 1331 (1965) [7, 1642 (1965)]
- KHEIFETS, M. I.**
Coupled Surface Waves in Semiconductors. (T) M. I. Kheifets. *J.* 2816 (1966) [7, 3485 (1965)]
- KHITARISHVILI, L. S.**
Some Optical and Photoelectric Properties of MoO_3 . (E/T) R. B. Dzhanchelidze, I. M. Purtseladze, L. S. Khitarishvili, R. I. Chikviani, and A. L. Shkol'nik. *J.* 2082 (1966) [7, 2573 (1965)]
- KHIZHNYAKOV, V. V.**
Theory of the Infrared-Absorption Band Width of U-Centers. (T) G. S. Zavi, N. N. Kristofel', and V. V. Khizhnyakov. *J.* 1973 (1966) [7, 2444 (1965)]
- KHLEBOPROS, R. G.**
Allowance for the Magnetoelastic Coupling in the Motion of a Magnetic Moment. (T) A. M. Rodichev and R. G. Khlebospros. *J.* 210 (1965) [7, 274 (1965)]
- KHODOSEVICH, P. K.**
Spectral Distribution of the Internal Photoeffect in Hexagonal Selenium at Low Temperatures. (E) B. T. Kolomiets, V. G. Romanov, and P. K. Khodosevich. *J.* 2048 (1966) [7, 2534 (1965)]
- KHOLUYANOV, G. F.**
The Roles of Boron, Nitrogen, and Gallium in the Electroluminescence of Silicon Carbide p - n Junctions. (E) G. F. Kholuyanov. *J.* 2620 (1966) [7, 3241 (1965)]
- KHUCHUA, N. P.**
Nature of Phase Transformations in Solid Solutions of BiFeO_3 with $\text{PbFe}_{1/2}\text{Nb}_{1/2}\text{O}_3$. (E) N. N. Krainik, N. P. Khuchua, A. A. Berezhnoi, and A. G. Tutov. *J.* 100 (1965) [7, 132 (1965)]
- KHUTSISHVILI, G. R.**
Quantum Oscillations of Nuclear Relaxation Time in Semimetals. (T) G. E. Gurgenshvili and G. R. Khutsishvili. *J.* 1078 (1965) [7, 1335 (1965)]
- KHVOSTIKOVA, V. D.**
Dislocation Structure of Crystals with the Diamond Lattice, Grown Along the [100] Direction. (E) L. S. Milevskii and V. D. Khvostikova. *J.* 2681 (1966) [7, 3326 (1965)]
- KHWARDZHYAN, S. M.**
A Dislocation Theory of Internal Friction. (T) E. G. Shvidkovskii and S. M. Khwardzhyan. *J.* 2120 (1966) [7, 2620 (1965)]
- KICHIGIN, D. A.**
Cyclotron Resonance of Hot Electrons. (E/T) V. P. Lobachev and D. A. Kichigin. *J.* 375 (1965) [7, 470 (1965)]
- KIKOIN, I. K.**
Anisotropy of the Even Photomagnetic Effect in p -Type Germanium in Strong Magnetic Fields. (E) I. K. Kikoin and S. D. Lazarev. *J.* 2072 (1966) [7, 2564 (1965)]
- KIREEV, P. S.**
Electric-Field-Induced Shift of the Fundamental Absorption Edge in GaAs, CdS, and CdTe Films. (E) P. S. Kireev, N. N. Orlova, V. N. Saurin, and L. N. Strel'tsov. *J.* 1029 (1965) [7, 1271 (1965)]
- KIRGINTSEV, A. N.**
Determination of Distribution Coefficients from Data on Directional Crystallization. (T) A. N. Kirgintsev and E. G. Avvakumov. *J.* 1279 (1965) [7, 1583 (1965)]
- KIRICHUK, A. S.**
Impact Ionization in Silicon Carbide. (E/T) I. K. Vereshchagin and A. S. Kirichuk. *J.* 1027 (1965) [7, 1269 (1965)]
- KIRS, Ya. Ya.**
Influence of High Pressure on the Photoconductivity of Some Semiconductors. (T/E) A. I. Niliak, A. V. Gerst, and Ya. Ya. Kirs. *J.* 744 (1965) [7, 931 (1965)]
- KIRVALDZE, I. D.**
Plasticity of Silicon. (E) I. D. Kirvaldze. *J.* 1533 (1965) [7, 1897 (1965)]
- KITAIGORODSKII, A. I.**
Calculation of the Debye Temperature of Adamantane From the Intermolecular Interaction Potential. (T) A. I. Kitaigorodskii, B. D. Koreskov, and A. G. Kul'kin. *J.* 611 (1965) [7, 643 (1965)]
- KITAIGORODSKII, A. I.**
Characteristic Temperature of Molecular Crystals. (E) A. I. Kitaigorodskii, B. D. Koreskov, and E. L. Pikus. *J.* 2296 (1966) [7, 2843 (1965)]
- KIZHAEV, S. A.**
Determination of the Curie Point of the Ferroelectrics YbMnO_3 and YbMnO_4 . (E/T) I. G. Ismailzade and S. A. Kizhaev. *J.* 236 (1965) [7, 298 (1965)]
- KIZHAEV, S. A.**
Structure and Magnetic Properties of TiMnF_3 . (E) S. A. Kizhaev, A. G. Tutov, and V. A. Bokov. *J.* 2325 (1966) [7, 2868 (1965)]
- KIZHAEV, S. A.**
Structure and Magnetic Properties of BiMnO_3 . (E) V. A. Bokov, I. E. Myi'tnikova, S. A. Kizhaev, M. F. Bryzhina, and N. A. Grigoryan. *J.* 2993 (1966) [7, 3695 (1965)]
- KLIMASHIN, G. M.**
Electrical Properties of Titanium Carbide. (E) O. A. Golikova, A. I. Avgustinskii, G. M. Klimashin, and L. V. Kozlovskii. *J.* 2317 (1966) [7, 2860 (1965)]
- KLIMASHIN, G. M.**
Electrical Properties of Carbides of Transition Metals in Group IV. (E) O. A. Golikova, A. I. Avgustinskii, G. M. Klimashin, L. V. Kozlovskii, S. S. Ordan'yan, and V. A. Sushkova. *J.* 2995 (1966) [7, 3698 (1965)]
- KLOCHIKHIN, A. A.**
Characteristics of the Scattering of Neutron by Ferromagnets in the Region of Ferroacoustic Resonance. (T) A. A. Klochikhin and I. Ya. Korenblit. *J.* 2916 (1966) [7, 3617 (1965)]
- KLOTYNSH, E. E.**
Effect of Copper on the Electrical Properties of Gallium Arsenide. (E) O. V. Emel'yanenko, E. E. Klotyn'sh, and D. N. Nasledov. *J.* 1292 (1965) [7, 1595 (1965)]
- KLYACHKO, B. S.**
Interaction Between an Elastic Surface Wave and Semi-Infinite Plasma. (T) B. S. Savvinikh, A. A. Karyushin, and B. S. Klyachko. *J.* 2585 (1966) [7, 3194 (1965)]
- KLYM, N. M.**
Structure and Thermoelectric Properties of the Bismuth-Cadmium System in the Solid and Liquid States. (E) Ya. I. Dumchak, V. Ya. Prokhorov, and N. M. Klym. *J.* 1595 (1966) [7, 1974 (1965)]

- KLYUKVINA, V. P.**
Influence of Impurities and of Deformation on the Kinetics of Accumulation of F-Centers in KCl Crystals. (E) L. I. Roshchina and V. P. Klyukvina. *J.* 1829 (1966) [7, 2262 (1965)]
- KOBZAREVA, S. A.**
Direct Observation of Active Centers on Surfaces of Semiconducting Crystals. (E) G. I. Distler and S. A. Kobzareva. *J.* 1977 (1966) [7, 2459 (1965)]
- KOCHELAEV, B. I.**
Spin-Spin Interaction via Conduction Electrons in Semiconductors. (T) B. I. Kochelaev. *J.* 2315 (1966) [7, 2859 (1965)]
- KOGAN, L. M.**
Influence of Impurities on the Recombination Radiation Spectra of Gallium Arsenide. (E) A. N. Inenkov, L. M. Kogan, M. M. Kozlov, S. S. Moskin, D. N. Nasledov, and B. V. Tsarenkov. *J.* 2819 (1966) [7, 3115 (1965)]
- KOGAN, Sh. M.**
The Formation of Domains in Semiconductors with Negative Differential Resistance. (T) V. L. Bonch-Bruевич and Sh. M. Kogan. *J.* 15 (1965) [7, 23 (1965)]
- KOGAN, V. S.**
Texture in Layers of Gases Condensed on a Cold Substrate. (E) A. S. Bulatov, V. S. Kogan, and L. F. Yakimenko. *J.* 679 (1965) [7, 852 (1965)]
- KOGAN, V. S.**
Isotopic Effect in the Values of the Molar Volumes of LiF and LiH. (E) V. S. Kogan and T. G. Omarov. *J.* 747 (1965) [7, 933 (1965)]
- KOKOV, S. N.**
Calculation of the Formation Energy of a Defect Pair in the Crystal Lattice of Rutile. (T) S. N. Kokov and M. N. Rozova. *J.* 2166 (1966) [7, 2678 (1965)]
- KOLACHEVSKII, N. N.**
Generation-Recombination Noise in an InSb Photoresistor. (T/E) N. N. Kolachevskii and Rozhdestvenskii. *J.* 898 (1965) [7, 1119 (1965)]
- KOLBANEV, I. V.**
EPR Spectra of Free Radicals Arising in the Mechanical Breakdown of Polymers. Vulcanized Rubbers. (E) P. Yu. Batiagin, V. F. Drozdovskii, D. R. Razgon, and I. V. Kolbanev. *J.* 757 (1965) [7, 941 (1965)]
- KOLCHANOVA, N. M.**
Anomalous Behavior of the Mobility in Gallium Arsenide Doped with Oxygen. (E) N. M. Kolchanova and G. N. Talalakin. *J.* 2522 (1966) [7, 3118 (1965)]
- KOLENIKOV, N. V.**
Maximum Temperatures for the Stability Retention of Free Atoms Captured in Various Media at Liquid-Nitrogen Temperatures. (E) R. A. Zhitnikov and N. V. Kolenikov. *J.* 1021 (1965) [7, 1263 (1965)]
- KOLESNIKOV, N. V.**
Paramagnetic Resonance of Free Atoms of the Alkali Metals Na, K, and Rb, Stabilized in a Molecular Matrix at Liquid-Nitrogen Temperatures. (E) R. A. Zhitnikov and N. V. Kolesnikov. *J.* 927 (1965) [7, 1157 (1965)]
- KOLESNIKOV, N. V.**
Hypertine Structure of the Paramagnetic Resonance Spectra of Free Ag, Au, and Cu Atoms Stabilized in a Matrix of Benzene at Liquid-Nitrogen Temperatures. (E) R. A. Zhitnikov and N. V. Kolesnikov. *J.* 1382 (1965) [7, 1710 (1965)]
- KOLOMIETS, B. T.**
Concentration Dependence of the Forbidden-Band Width in Alloys of InSb with GaSb. (E) I. S. Baukin, V. I. Ivanov-Omskii, and B. T. Kolomiets. *J.* 1019 (1965) [7, 1261 (1965)]
- KOLOMIETS, B. T.**
Thermal Conductivity of Semiconducting Chalcogenide Glasses. (E) B. T. Kolomiets, L. Payasova, and L. Shitourach. *J.* 1285 (1965) [7, 1585 (1965)]
- KOLOMIETS, B. T.**
Impurity and Induced Photoconductivity of Chalcogenide Glass $Tl_2Se-As_2Te_3$. (E) B. T. Kolomiets, T. N. Mamontova, and G. I. Stepanov. *J.* 1320 (1965) [7, 1630 (1965)]
- KOLOMIETS, B. T.**
Spectral Distribution of the Internal Photoeffect in Hexagonal Selenium at Low Temperatures. (E) B. T. Kolomiets, V. G. Romanov, and P. K. Khodosovich. *J.* 2042 (1966) [7, 2534 (1965)]
- KOLOMIETS, B. T.**
Impurity Photoconductivity in Single-Crystal and Glassy Arsenic Selenide. (E) B. T. Kolomiets and G. I. Stepanov. *J.* 2181 (1966) [7, 2698 (1965)]
- KOLOMOETS, L. A.**
Thermoelectric Properties of PbTe-SnTe Solid Solutions. (E/T) B. A. Efimova and L. A. Kolomoets. *J.* 339 (1965) [7, 424 (1965)]
- KOLOMOETS, N. V.**
Energy Spectrum of Carriers in Germanium Telluride. (E/T) L. M. Sysoeva, E. Ya. Lev, and N. V. Kolomoets. *J.* 1791 (1966) [7, 2223 (1965)]
- KOLONTSOVA, E. V.**
Structural Changes in Neutron Irradiated α -Quartz. (E/T) E. V. Kolontsova and I. V. Telegina. *J.* 2207 (1966) [7, 2730 (1965)]
- KOLOSOV, E. E.**
Thermoelectric Power and Thermal Conductivity of Mercury Telluride Containing Various Amounts of Impurities. (E) E. E. Kolosov and P. V. Sharavskii. *J.* 1814 (1966) [7, 2247 (1965)]
- KOLOSOV, E. E.**
The Dependence of the Thermo-emf of HgTe on a Transverse Magnetic Field. (E/T) E. E. Kolosov and P. V. Sharavskii. *J.* 2973 (1966) [7, 3679 (1965)]
- KOLPASHCHIKOV, V. L.**
Pulsation of Stimulated Emission from Solids. (T) B. L. Zhelnov, A. P. Kazantsev, V. L. Kolpashchikov, and V. S. Smirnov. *J.* 1418 (1965) [7, 1756 (1965)]
- KOMAR, A. P.**
The "Waveguide" Theory of Field Emission of Molecular Complexes of Semiconductors, and Experimental Results. (E) A. P. Komar and V. P. Savchenko. *J.* 606 (1965) [7, 759 (1965)]
- KOMAR, A. P.**
Field-Emission Microscopy of Ni-Be Alloys. (E) A. P. Komar and N. N. Syutkina. *J.* 2670 (1966) [7, 3310 (1965)]
- KOMAROV, G. V.**
Effect of Orientation of a Growing Bismuth Crystal on the Peltier Coefficient for the Interface Between the Solid and Liquid Phases. (E) G. V. Komarov and A. R. Regel'. *J.* 1195 (1965) [7, 1486 (1965)]
- KOMNIK, S. N.**
Role of the Process of Dislocation Generation in the Twinning of Calcite. (T/E) S. N. Komnik, V. Z. Bengus, and V. I. Startsev. *J.* 96 (1965) [7, 127 (1965)]
- KOMNIK, Yu. F.**
The Influence of the Structure of Thin Films on Their Electrical Conductivity. (T/E) Yu. F. Komnik and L. S. Palatnik. *J.* 429 (1965) [7, 539 (1965)]
- KONDRAŠEV, A. I.**
Emission of Electrons on Bombardment of Alkali Halide Single Crystals with Slow Helium and Argon Ions. (E) A. I. Kondrašev and N. N. Petrov. *J.* 1255 (1965) [7, 1559 (1965)]
- KONOBEEV, Yu. V.**
Theory of Long-Wavelength Surface Excitons in Dielectric Materials. (T) V. M. Agranovich and Yu. V. Konobeev. *J.* 83 (1965) [7, 111 (1965)]
- KONOBEEV, Yu. V.**
Cross Section for Scattering of a Free Exciton by Impurities in a Molecular Crystal. (T) O. A. Dubovskii and Yu. V. Konobeev. *J.* 782 (1965) [7, 946 (1965)]
- KONOROVA, E. A.**
Photoconductivity of Diamond in the Ultraviolet Part of the Spectrum. (E) E. A. Konorova, L. A. Sorokina, and S. A. Shevchenko. *J.* 878 (1965) [7, 1092 (1965)]
- KONOROVA, E. A.**
Temperature Dependence of the Electric Strength of Alkali Halide Crystals. (E/T) E. A. Konorova and L. A. Sorokina. *J.* 1186 (1965) [7, 1475 (1965)]

- KONOVALENKO, B. M.
Low-Temperature Annealing of Germanium, Irradiated with Fast Electrons. (E) A. B. Gerasimov and B. M. Konovalenko. *J.* 2654 (1966) [*J.* 2545 (1965)]
- KONOVALENKO, B. M.
Hysteresis Nature of the Current-Voltage Characteristic of a p-n Junction Produced by Irradiation in Germanium. (E) A. B. Gerasimov, N. D. Dolidsze, B. M. Konovalenko, and S. M. Rykhin. *J.* 2070 (1966) [*J.* 2562 (1965)]
- KONZOZENKO, I. D.
Generation of Current Pulses by CdS Single Crystals. (E) S. I. Shakhovtsova, I. D. Konozenko, and E. A. Muzalevskii. *J.* 214 (1965) [*J.* 278 (1965)]
- KONSTANTINOV, O. V.
Electromagnetic Theory of the Injection Laser. (T) R. F. Kazarinov, O. V. Konstantinov, V. I. Perel', and A. L. Efros. *J.* 1210 (1965) [*J.* 1506 (1965)]
- KONTOROVA, T. A.
Cp-Cv for Ge Containing Various Admixture of Electrically Active Impurities. (E) V. V. Zhdanova and T. A. Kontorova. *J.* 1281 (1965) [*J.* 1584 (1965)]
- KONTOROVA, T. A.
Thermal Expansion of Doped Germanium. (E) V. V. Zhdanova and T. A. Kontorova. *J.* 2685 (1966) [*J.* 3331 (1965)]
- KOPAEV, Yu. V.
Calculation of Electron and Hole Coulomb Interaction at the Contact of Degenerate n- and p-Type Semiconductors. (T) Yu. V. KopaeV. *J.* 2356 (1966) [*J.* 2902 (1965)]
- KOPAEV, Yu. V.
The Possibility of the Existence of Superconductivity in Ferromagnetic Materials Having a Domain Structure. (T) Yu. V. KopaeV. *J.* 2360 (1966) [*J.* 2907 (1965)]
- KOPVILLEM, U. Kh.
The Theory of the Sensitivity of Quantum Counters. (T) U. Kh. Kopvillem and M. Khakhilkin. *J.* 1233 (1965) [*J.* 1535 (1965)]
- KOPVILLEM, U. Kh.
Acoustic Magnetic Resonance and Relaxation Absorption by Virtual Phonons. (T) U. Kh. Kopvillem. *J.* 1637 (1966) [*J.* 2028 (1965)]
- KORENBILIT, I. Ya.
Characteristics of the Scattering of Neutron by Ferromagnets in the Region of Ferroacoustic Resonance. (T) A. A. Kiochikhin and I. Ya. Korenbilit. *J.* 2916 (1966) [*J.* 3617 (1965)]
- KORENBILIT, I. L.
Temperature Dependence of the Effective Electron Mass and Some Data on the Mechanism of Electron Scattering in Mercury Selenide. (E/T) S. A. Aliev, L. L. Korenbilit, and S. S. Shalyt. *J.* 1357 (1965) [*J.* 1673 (1965)]
- KORESHKOV, B. D.
Calculation of the Debye Temperature of Adamantane From the Intermolecular Interaction Potential. (T) A. I. Kitagorodskii, B. D. Koreshev, and A. G. Kul'kin. *J.* 511 (1965) [*J.* 643 (1965)]
- KORESHKOV, B. D.
Characteristic Temperature of Molecular Crystals. (E) A. I. Kitagorodskii, B. D. Koreshev, and E. L. Pikus. *J.* 2298 (1966) [*J.* 2843 (1965)]
- KORNFEL'D, M. I.
Compensation of Divalent Metallic Impurities in Alkali-Halide Crystals. (E) M. I. Kornfel'd and V. V. Lemanov. *J.* 1816 (1966) [*J.* 2249 (1965)]
- KORNFEL'D, M. I.
Complexes of Impurity Ions (Mn^{2+} and F^-) in Strontium Chloride Crystals. (E) M. I. Kornfel'd and L. S. Sochava. *J.* 1931 (1966) [*J.* 2391 (1965)]
- KORNFEL'D, M. I.
Formation of Pores During Decomposition of Solid Solutions of Divalent Impurities in Sodium Chloride. (E) M. I. Abaev and M. I. Kornfel'd. *J.* 2271 (1966) [*J.* 2809 (1965)]
- KORNIENKO, L. S.
On the New Electron Paramagnetic Resonance Spectrum of Neodymium in CaF_2 Single Crystals. (E) N. E. Kask and L. S. Kornienko. *J.* 497 (1965) [*J.* 625 (1965)]
- KORNIENKO, L. S.
Electron Paramagnetic Resonance of Irradiated Single Crystals of Fluorite Containing a Neodymium Addition. (E) N. E. Kask, L. S. Kornienko, and A. O. Rybalovskii. *J.* 532 (1965) [*J.* 663 (1965)]
- KORNIENKO, L. S.
EPR Rhombic Spectra of Dy^{2+} and Nd^{3+} Ions in CaF_2 . (E) N. E. Kask, L. S. Kornienko, and A. O. Rybalovskii. *J.* 3614 (1966) [*J.* 3234 (1965)]
- KORNILOV, B. V.
The Phenomenon of the Generation of Oscillations in an n-Type Germanium Plate Doped with Copper. (E) B. V. Kornilov. *J.* 287 (1965) [*J.* 329 (1965)]
- KORNILOV, B. V.
Carrier Recombination at Zinc Atoms in n-Silicon. (E) B. V. Kornilov. *J.* 1448 (1965) [*J.* 1795 (1965)]
- KORNILOV, B. V.
Determination of Effective Capture Cross Section for Holes by Singly Negatively Charged Zinc Atoms in p-Silicon by the Double Injection Method. (E) B. V. Kornilov. *J.* 2794 (1966) [*J.* 3458 (1965)]
- KOROBov, Yu. M.
The Interaction of a Crack with Dislocation Boundaries. (E) V. M. Finkel', A. M. Savel'ev, L. B. Zuev, S. V. Serebryakov, Yu. M. Korobov, and I. B. Zueva. *J.* 1130 (1965) [*J.* 1402 (1965)]
- KOROL'KOV, V. I.
Growth and Electrical Properties of Epitaxial Layers p-Type Gallium Phosphide. (E) Zh. I. Alferov, V. I. Korol'kov, M. K. Trukan, and S. P. Chashechn. *J.* 1915 (1966) [*J.* 2370 (1965)]
- KOROVIN, L. I.
Theory of the Form of the Interband Magneto-optical Absorption Lines for the Case of Elastic Scattering. (T) L. I. Korovin and E. V. Kharitonov. *J.* 1740 (1966) [*J.* 2162 (1965)]
- KOROVIN, L. I.
Magnetoacoustic Resonance in the Region of the Self-absorption Edge. (T) L. I. Korovin. *J.* 2330 (1966) [*J.* 2873 (1965)]
- KORSHAK, N. M.
Some Properties of p-Type $CdSnAs_2$. (E) V. V. Galavanov, N. A. Goryunova, N. M. Korshak, S. Mamaev, and A. Nazarov. *J.* 2949 (1966) [*J.* 3655 (1965)]
- KORYAGIN, V. F.
Electron Paramagnetic Resonance of Atomic Hydrogen in Beryllium. (T/E) V. F. Koryagin and B. N. Grechushnikov. *J.* 2010 (1966) [*J.* 2496 (1965)]
- KORYAGIN, V. F.
Spectra of Trivalent Chromium Complexes $AlCl_3 \cdot 6H_2O$ Crystals. (E) I. I. Antipova-Karataeva, B. N. Grechushnikov, V. F. Koryagin, and Yu. I. Kutsenko. *J.* 2192 (1966) [*J.* 2712 (1965)]
- KORYAGIN, V. F.
Paramagnetic Resonance of the Mn^{2+} Ion in Synthetic Olivine $CdCO_3$. (E) V. N. Grechushnikov and V. F. Koryagin. *J.* 2527 (1966) [*J.* 3123 (1965)]
- KOSAREV, V. M.
Properties of the Fine Structure of the Absorption Spectrum of Gallium Phosphide Crystals. (E) I. S. Gorban' and V. M. Kosarev. *J.* 2934 (1966) [*J.* 3641 (1965)]
- KOSEVICH, A. M.
Equation of Motion of a Dislocation in an Anisotropic Medium. (T) A. M. Kosevich and V. D. Natski. *J.* 22 (1965) [*J.* 33 (1965)]
- KOSEVICH, A. M.
Polarization and Motion of Pores in an Ionic Crystal in an Electric Field. (T) A. M. Kosevich. *J.* 360 (1965) [*J.* 451 (1965)]
- KOSEVICH, A. M.
The Distribution of Charge Near a Prismatic Dislocation Loop in an Ionic Crystal. (T) A. M. Kosevich, I. G. Margvelashvili, and Z. K. Saralidze. *J.* 370 (1965) [*J.* 464 (1965)]
- KOSILOV, A. T.
Internal Friction and Strength of Copper Crystal Whiskers. (E) S. A. Ammer, A. T. Kosilov, and V. S. Postnikov. *J.* 1808 (1966) [*J.* 2242 (1965)]

- KOSMAN, M. S.**
Photocurrent Oscillations in PbO Photoresistors. (T) V. A. Izvozhikov, M. S. Kosman, and K. A. Chernyavskii. *J.* 1348 (1965) [*J.* 1552 (1965)]
- KOSTIKOVA, K. P.**
The Morphology and Origin of Stacking Faults in Epitaxial Layers. (E/T) V. N. Rozhnanski and K. P. Kostikova. *J.* 937 (1966) [*J.* 1169 (1966)]
- KOSTYUK, V. G.**
Creep Characteristics of Filamentary Crystals. (E) A. V. Serebryakov, V. G. Kostyuk, and K. K. Zilling. *J.* 684 (1965) [*J.* 858 (1965)]
- KOT, M. V.**
Intrinsic Recombination Radiation of Zinc Telluride. (E) M. V. Kot, L. M. Panasyuk, A. V. Simashkevich, and A. E. Tsurkan. *J.* 999 (1965) [*J.* 1243 (1965)]
- KOT, M. V.**
Intrinsic Recombination Radiation of ZnSe-ZnTe Heterojunctions. (E) M. V. Kot, L. M. Panasyuk, A. V. Simashkevich, A. E. Tsurkan, and D. A. Sherban. *J.* 1001 (1965) [*J.* 1244 (1965)]
- KOT, M. V.**
Recombination Radiation in p-n Junctions of Crystals of the CdTe-ZnTe System. (E) M. V. Kot and A. E. Tsurkan. *J.* 2304 (1966) [*J.* 2848 (1966)]
- KOTOV, B. A.**
Investigation of the Phonon Spectrum of Aluminum. (E) M. M. Bredov, B. A. Kotov, N. M. Okuneva, and A. L. Shakh-Budagov. *J.* 1138 (1965) [*J.* 1415 (1965)]
- KOTOV, B. A.**
Hybrid Neutron Spectrometer System. (E) B. A. Kotov, N. M. Okuneva, and A. L. Shakh-Budagov. *J.* 1146 (1965) [*J.* 1423 (1965)]
- KOTLYAR, B. I.**
Utilization of X-Ray Spectral Analysis for the Investigation of the Valence State of Manganese Atoms in Complex Oxide Semiconductors. (E) E. E. Vainshtein, R. M. Ovrukskaya, and B. I. Kotlyar. *J.* 1707 (1966) [*J.* 2129 (1965)]
- KOTYUKOV, Yu. N.**
Effect of Anisotropic Stresses on the Frequency Spectrum of Magnetoelastic Oscillations. (E/T) G. A. Petrukovskii and Yu. N. Kotyukov. *J.* 1892 (1966) [*J.* 2339 (1965)]
- KOVALEV, O. V.**
Screw Structures in MnO_2 . (T) O. V. Kovalev. *J.* 77 (1965) [*J.* 103 (1965)]
- KOVALEV, O. V.**
Possible Changes in the Magnetic Point Symmetry During Phase Transition from a Paramagnetic Phase. (T) O. V. Kovalev. *J.* 731 (1965) [*J.* 919 (1965)]
- KOVARSKII, V. A.**
Generation-Recombination Noise in a Magnetic Field. (T) V. A. Kovarskii and I. A. Chaikovskii. *J.* 2013 (1966) [*J.* 2499 (1965)]
- KOVARSKII, V. A.**
Recombination Relaxation in Quantizing Magnetic Fields. (T) V. A. Kovarskii and I. A. Chaikovskii. *J.* 2018 (1966) [*J.* 2505 (1965)]
- KOVARSKII, V. Ya.**
Measurement of the Potential Distribution in Epitaxial p-n Structures by the Flying Light Spot Method. (E) V. Ya. Kovarskii and V. I. Shimko. *J.* 1831 (1966) [*J.* 2264 (1965)]
- KOVARSKII, V. Ya.**
Controlled Generation of Relaxation Oscillations at a Point Contact in n-Type Epitaxial Silicon. (E) V. Ya. Kovarskii and V. I. Shimko. *J.* 2510 (1966) [*J.* 3106 (1965)]
- KOVASYUK, V. P.**
Investigation of the Effect of Photocarrier Trapping at the Surface of Silicon. (E/T) V. G. Litovchenko, A. P. Gorban', and V. P. Kovasyuk. *J.* 449 (1965) [*J.* 565 (1965)]
- KOVDRYA, Yu. Z.**
Electrical Conductivity of Single-Crystal Bismuth in the Temperature Range 80-540°K. (E/T) A. B. Amitin and Yu. Z. Kovdrya. *J.* 633 (1965) [*J.* 793 (1965)]
- KOVNATSKII, A. M.**
Spin-Lattice of the Observed Field-Distribution Oscillations in Germanium with an Injecting Contact. (E) I. V. Ioffe and A. M. Kovnatskii. *J.* 2035 (1966) [*J.* 2527 (1965)]
- KOVRIZHNYKH, Yu. T.**
Galvanomagnetic Effects in Semiconductors with an Inhomogeneous Impurity Distribution. (T/E) E. A. Zavadaki, Yu. T. Kovrizhnykh, and I. G. Faidov. *J.* 2890 (1966) [*J.* 3522 (1965)]
- KOVTONYUK, N. F.**
Recombination-Gradient Photo-EMF in Semiconductors. (E) N. F. Kovtonyuk. *J.* 1243 (1965) [*J.* 1548 (1965)]
- KOZLOV, M. M.**
Recombination Radiation of p-n Tunnel Junctions in GaAs. (E) A. N. Imenkov, M. M. Kozlov, S. S. Meakin, D. N. Naalelov, V. N. Ravich, and B. V. Tsarenkov. *J.* 504 (1965) [*J.* 634 (1965)]
- KOZLOV, M. M.**
Electroluminescence Spectra of Strongly Degenerate Gallium Arsenide. (E/T) A. N. Imenkov, M. M. Kozlov, S. S. Meakin, D. N. Naalelov, V. N. Ravich, and B. V. Tsarenkov. *J.* 618 (1965) [*J.* 775 (1965)]
- KOZLOV, M. M.**
Electron-Hole Transition in a Highly Degenerate Semiconductor at Excessive Current Densities. (T/E) A. N. Imenkov, M. M. Kozlov, D. N. Naalelov, and B. V. Tsarenkov. *J.* 1190 (1965) [*J.* 1480 (1965)]
- KOZLOV, M. M.**
Influence of Impurities on the Recombination Radiation Spectra of Gallium Arsenide. (E) A. N. Imenkov, L. M. Kogin, M. M. Kozlov, S. S. Meakin, D. N. Naalelov, and B. V. Tsarenkov. *J.* 2519 (1966) [*J.* 3115 (1965)]
- KOZLOVSKII, L. V.**
Electrical Properties of Titanium Carbide. (E) O. A. Golikova, A. I. Avgustinik, G. M. Klimashin, and L. V. Kozlovskii. *J.* 2317 (1966) [*J.* 2860 (1965)]
- KOZLOVSKII, L. V.**
Electrical Properties of Carbides of Transition-Metals in Group IV. (E) O. A. Golikova, A. I. Avgustinik, G. M. Klimashin, L. V. Kozlovskii, S. S. Orlovskii, and V. A. Smetkova. *J.* 2695 (1966) [*J.* 3095 (1965)]
- KRAFTMAKHER, Ya. A.**
The Energy of Formation and the Concentration of Vacancies in Platinum. (E/T) Ya. A. Kraftmakher and E. B. Lanin. *J.* 92 (1965) [*J.* 123 (1965)]
- KRAFTMAKHER, Ya. A.**
Specific Heat of Iron Near the Curie Point. (E) Ya. A. Kraftmakher and T. Yu. Romashina. *J.* 2040 (1966) [*J.* 2532 (1965)]
- KRAINIK, N. N.**
Nature of Phase Transformations in Solid Solutions of $BiFeO_3$ with $PbFe_{1/2}Nb_{1/2}O_3$. (E) N. N. Krainik, N. P. Khuchua, A. A. Berezhnoi, and A. G. Tutov. *J.* 100 (1965) [*J.* 132 (1965)]
- KRAINIK, N. N.**
Antiferroelectric Properties of Lead Orthovanadate. (E) V. A. Isupov, N. N. Krainik, I. D. Fridberg, and I. E. Zelenkova. *J.* 844 (1965) [*J.* 1051 (1965)]
- KRAMER, N. I.**
Indirect Optical Transitions in Semiconductors Involving Carrier Interaction. (T) S. M. Rytin, A. A. Grinberg, and N. I. Kramer. *J.* 1766 (1966) [*J.* 2195 (1965)]
- KRAMER, N. I.**
Light Absorption Related to Carrier Interaction in Semiconductors with "Forbidden" Optical Transitions. (T) N. I. Kramer. *J.* 2874 (1966) [*J.* 3582 (1965)]
- KRASKO, G. L.**
A Method for Investigating Phase Transitions in a Solid. (T) G. L. Krasko. *J.* 1070 (1965) [*J.* 1324 (1965)]
- KRAVCHENKO, V. Ya.**
Two-Phonon Processes in the Spin-Lattice Relaxation of F-Centers. (T) V. Ya. Kravchenko and V. L. Vinetskii. *J.* 1 (1965) [*J.* 3 (1965)]
- KRAVCHENKO, V. Ya.**
One-Phonon Spin-Lattice Relaxation under the Action of Optical Vibrations. (T/E) V. L. Vinetskii and V. Ya. Kravchenko. *J.* 256 (1965) [*J.* 319 (1965)]

- KRESIN, V. Z.**
Critical Temperature for Ordinary and Anomalous Superconductors. (T) B. T. Geilikman and V. Z. Kresin. *J.* 2659 (1966) [7, 3294 (1965)]
- KRISHCHUNAS, V. Yu.**
Pressure Dependence of the Fundamental Absorption Edge of Selenium Single Crystals. (E/T) V. Yu. Krishchunas, M. P. Mikal'kevichyus, and A. Yu. Shileika. *J.* 2080 (1966) [7, 2571 (1965)]
- KRISTOFEL', N. N.**
Theory of the Infrared-Absorption Band Width of U-Centers. (T) G. S. Zavit, N. N. Kristofel', and V. V. Khizhnyakov. *J.* 1973 (1966) [7, 2444 (1965)]
- KRISTOFEL', N. N.**
Symmetry of Oscillations and Raman Scattering Spectra of Doped Alkali Halide Crystals. (T) N. N. Kristofel'. *J.* 2027 (1966) [7, 2519 (1965)]
- KRIVITSKII, E. V.**
Piezoresistivity in Partially Reduced Rutile in the Temperature Range from 78 to 500°K. (E) G. L. Bir, V. N. Dogomolov, E. V. Krivitskii, and T. E. Sulyattskaya. *J.* 2414 (1966) [7, 2978 (1965)]
- KRIVOGLAZ, M. A.**
Spectral Distribution of Localized Vibrations. (T) M. A. Ivanov, L. B. Kvashina, and M. A. Krivoglaz. *J.* 1652 (1966) [7, 2047 (1965)]
- KROKHIN, O. N.**
Amplification Factor and Saturation Effect in Semiconductors with Homogeneous Excitation. (T) O. N. Krokhin. *J.* 2114 (1966) [7, 2612 (1965)]
- KROTOVA, L. V.**
The Effect of Oxygen Impurity on the Optical Properties of CaF_2 -3m Crystals. (E) L. V. Krotova, V. V. Osiko, and V. T. Udovchik. *J.* 181 (1965) [7, 238 (1965)]
- KROTOVA, L. V.**
Optical Properties of CaF_2 - Nd^{3+} Crystals. (E/T) Yu. K. Boron'ko, L. V. Krotova, V. V. Osiko, V. T. Udovchik, and M. M. Pursikov. *J.* 1450 (1965) [7, 1800 (1965)]
- KRUTILINA, T. A.**
Some Characteristics of the Interaction of Oxygen with the Surface of a Tungsten Single Crystal. (E) Ya. P. Zingerman, V. A. Ishchuk, and T. A. Krutina. *J.* 2078 (1966) [7, 2569 (1965)]
- KRUZHILINA, N. G.**
Current Oscillations in Compensated Germanium and Silicon. (E) B. S. Muravskii, V. S. Guskov, N. G. Krushilina, and A. G. Shved. *J.* 2748 (1966) [7, 3412 (1965)]
- KRYNETSKII, B. B.**
Inversion and Line Width of Paramagnetic Resonance Absorption in Chromium-Doped Rutile in the 20-cm Waveband. (E/T) N. V. Karlov and B. B. Krynetskii. *J.* 2321 (1966) [7, 2865 (1965)]
- KRYUKOVA, I. V.**
Oscillations of the Impurity Photoconductivity in Silicon. (E) I. V. Kryukova. *J.* 2060 (1966) [7, 2551 (1965)]
- KRYUKOVA, I. V.**
Stimulated Radiation from Diffused p-n Junctions in Gallium Arsenide. (E) I. V. Kryukova, V. G. Karnaukhov, and L. I. Paduchikh. *J.* 2757 (1966) [7, 3421 (1965)]
- KSENDOV, Ya. M.**
Forbidden-Band Width of Nickel Monoxide. (E) Ya. M. Ksendov and I. A. Drabkin. *J.* 1519 (1965) [7, 1884 (1965)]
- KUCHERENKO, I. V.**
Mobility of Holes and Electrical Breakdown in Silicon at Low Temperatures. (E/T) I. V. Kucherenko. *J.* 818 (1965) [7, 1017 (1965)]
- KUDINOV, E. K.**
Adiabatic Approximation in the Theory of Low Mobility. (T) E. K. Kudinov and Yu. A. Firsov. *J.* 435 (1965) [7, 546 (1965)]
- KUDINOV, V. A.**
Effect of Random Inhomogeneities on the Measurement of the Thermal emf and the Nernst Coefficient in a Strong Magnetic Field. (T) V. A. Kudinov and B. Ya. Molzhes. *J.* 1868 (1966) [7, 2309 (1965)]
- KUDRYAVTSEVA, T. V.**
Thermomagnetic and Galvanomagnetic Effects in Manganese Ferrites. (E) K. P. Belov, E. V. Talalaeva, and T. V. Kudryavtseva. *J.* 789 (1965) [7, 881 (1965)]
- KUDRYAVTSEVA, N. V.**
Possible Structure of the Energy Spectrum of Electrons in Crystals, Taking into Account the Operation of Time Reversal. (T) N. V. Kudryavtseva. *J.* 803 (1965) [7, 998 (1965)]
- KUDZIN, A. Yu.**
Influence of Polar Liquid Vapors on the Dielectric Properties of Barium Titanate Single Crystals Containing Additives. (E) E. P. Gurenok and A. Yu. Kudzin. *J.* 2300 (1966) [7, 2845 (1965)]
- KUKUSHKIN, L. S.**
Reciprocal Problems for Certain Processes Related to Multiphonon Transitions. (T) L. S. Kukushkin. *J.* 36 (1965) [7, 54 (1965)]
- KULIEV, B. B.**
Investigation of the Time and Temperature Dependences of the Strength of Amorphous Selenium. (E/T) S. A. Abasov, B. B. Kuliev, and Kh. M. Khalilov. *J.* 116 (1965) [7, 153 (1965)]
- KULIEV, B. B.**
Influence of the Phosphorus Impurity on the Temperature and Time Dependences of the Strength of Selenium. (E/T) B. B. Kuliev, S. A. Abasov, and Kh. M. Khalilov. *J.* 1496 (1965) [7, 1860 (1965)]
- KULIEV, B. B.**
Temperature Dependence of the Viscous Properties of Amorphous Selenium. (E) Kh. M. Khalilov and B. B. Kuliev. *J.* 2302 (1966) [7, 2847 (1965)]
- KULIK, I. O.**
Oscillations of the Tunneling Current from This Metal Film. (T) G. A. Gogadze and I. O. Kulik. *J.* 345 (1965) [7, 432 (1965)]
- KULIKOV, K. M.**
Some Characteristics of the Photoconductivity Kinetics in High-Resistivity n-Type Germanium Samples Doped with Gold. (E/T) S. A. Kaufman, K. M. Kulikov, N. P. Likhman, and N. Sh. Khaikina. *J.* 688 (1965) [7, 837 (1965)]
- KULIKOV, K. M.**
Cross Section for the Capture of Holes by Mercury and Zinc Ions in Germanium. (E) S. A. Kaufman and K. M. Kulikov. *J.* 2536 (1966) [7, 3132 (1965)]
- KUL'KIN, A. G.**
Calculation of the Debye Temperature of Adamantane from the Intermolecular Interaction Potential. (T) A. I. Kizilgorodskii, B. D. Koreskov, and A. G. Kul'kin. *J.* 511 (1965) [7, 643 (1965)]
- KUL'SHESHTA, Arun P.**
Some Electrical Properties of Semi-Insulating Gallium Arsenide. (E) Arun P. Kul'sheshta and A. E. Yuvovich. *J.* 2058 (1966) [7, 2549 (1965)]
- KUNIN, V. Ya.**
Change in the Electrical Conductivity of Perovskite-Type Ceramics in an Electric Field at High Temperatures. (E) V. Ya. Kunin, A. N. Tolkina, and A. Shakhov. *J.* 2961 (1966) [7, 3686 (1965)]
- KURDIANI, N. I.**
Electrical Properties of Indium Antimonide Irradiated by Neutrons at 77°K and by Electrons at 300°K. (E) L. K. Vodopyanov and N. I. Kurdiani. *J.* 2224 (1966) [7, 2745 (1965)]
- KURIK, M. V.**
Optical Absorption and Structure of Energy Bands in CdS - CdSe -x Crystals. (E/T) M. S. Brodin, M. V. Kurik, and S. P. Yurtaenyuk. *J.* 2516 (1966) [7, 3112 (1965)]
- KURIK, M. V.**
The Nature of the Observable Hole Conductivity in CdS Crystals with Cu Impurity. (E) N. I. Vitrikhovskii and M. V. Kurik. *J.* 2969 (1966) [7, 3676 (1965)]
- KURINNYI, V. I.**
Silicon Solar Cells Produced by Ion Bombardment. (E) V. M. Gusev, V. V. Timov, M. I. Guseva, and V. I. Kurinnyi. *J.* 1673 (1966) [7, 2077 (1965)]
- KURKIN, I. N.**
Electron Paramagnetic Resonance of Gd^{3+} in Synthetic SrMoO_4 . (T/E) I. N. Kurkin and V. G. Stepanov. *J.* 213 (1965) [7, 285 (1965)]

- KURKIN, I. N.
Electron Paramagnetic Resonance of Yb^{3+} Ions in Hexagonal ZnS . (T/E) A. A. Antipin, I. N. Kurkin, and L. Ya. Shekun. *J.* 753 (1965) [7, 938 (1965)]
- KURKIN, I. N.
Paramagnetic Resonance of Terbium in Single Crystals of PbMoO_4 . (E/T) A. A. Antipin, I. N. Kurkin, V. G. Stepanov, and L. Ya. Shekun. *J.* 752 (1965) [7, 985 (1965)]
- KURKIN, I. N.
Paramagnetic Resonance of Erbium and Europium in Synthetic Single Crystals of PbMoO_4 . (E) A. A. Antipin, A. N. Katsychev, I. N. Kurkin, and L. Ya. Shekun. *J.* 1148 (1965) [7, 1425 (1965)]
- KURKIN, I. N.
Paramagnetic Resonance of Trivalent Samarium in Single Crystals of CaF_2 . (E) A. A. Antipin, I. N. Kurkin, L. D. Livanova, L. Z. Potvorova, and L. Ya. Shekun. *J.* 1271 (1965) [7, 1575 (1965)]
- KURKIN, I. N.
Comparison of the EPR of Nd^{3+} and Ce^{3+} Ions in Two Crystals of the Homologous Scheelite Series. (E) I. N. Kurkin and L. Ya. Shekun. *J.* 2308 (1966) [7, 2852 (1966)]
- KURKIN, I. N.
EPR of Nd^{3+} in BaWO_4 . (E) A. A. Antipin, I. N. Kurkin, L. I. Potkin, M. I. Samoilovich, and L. Ya. Shekun. *J.* 2508 (1966) [7, 3105 (1966)]
- KURKIN, I. N.
EPR Study of Tetragonal Sm^{3+} Centers in Single Crystals of CaWO_4 . (E) A. A. Antipin, I. N. Kurkin, L. Z. Potvorova, and L. Ya. Shekun. *J.* 2596 (1966) [7, 3209 (1966)]
- KURKIN, I. N.
Observation of Paramagnetic Resonance of Dy^{3+} Ions in CaWO_4 Single Crystals. (E) A. A. Antipin, I. N. Kurkin, L. Z. Potvorova, and L. Ya. Shekun. *J.* 2979 (1966) [7, 3685 (1966)]
- KURKIN, S. A.
The Influence of Vacancies on Focuson Ranges. (T) S. A. Kurkin and D. D. Odintsov. *J.* 1269 (1965) [7, 1573 (1965)]
- KUROVA, I. A.
Kinetics of the Low-Temperature Impurity Photoconductivity in p-Type Germanium Containing Gold. (E/T) I. A. Kurova and V. V. Ostrobordova. *J.* 547 (1965) [7, 683 (1965)]
- KUROVA, I. A.
Low-Temperature Voltage Sensitivity of Gold-Doped p-Type Germanium. (E) I. A. Kurova, V. V. Ostrobordova, and N. N. Ormont. *J.* 755 (1965) [7, 940 (1965)]
- KURSKII, Yu. A.
The Possibility of Coherent Radiation from Localized Excitons in Silicon with Excitation Produced by Injection at a p-n Junction. (T) Yu. A. Kurskii. *J.* 567 (1965) [7, 707 (1965)]
- KUTASOV, V. A.
Thermal and Electrical Properties and the Forbidden Band Width of the $\text{Bi}_2\text{Te}_3\text{-Sb}_2\text{S}_3$ Solid-Solution System. (E/T) V. A. Kutasov, B. Ya. Moltshe, and I. A. Smirnov. *J.* 854 (1965) [7, 1065 (1965)]
- KUTASOV, V. A.
Thermal Conductivity of Solid Solutions Based on Bismuth Telluride. (E) E. A. Gurieva, A. I. Zaslavskii, V. A. Kutasov, and I. A. Smirnov. *J.* 978 (1965) [7, 1221 (1965)]
- KUTKO, V. I.
Infrared Absorption Spectra of Antiferromagnetic Crystals of the $\text{CoF}_2(1-x)\text{-MnF}_2x$ System. (E) A. I. Zvyagin, V. V. Erements, and V. I. Kutko. *J.* 2505 (1965) [7, 3102 (1965)]
- KUTSENKO, Yu. I.
Spectra of Trivalent Chromium Complexes $\text{AlCl}_3 \cdot 6\text{H}_2\text{O}$ Crystals. (E) I. I. Antipova-Karatayeva, B. N. Grechushnikov, V. F. Koryagin, and Yu. I. Kutsenko. *J.* 2192 (1966) [7, 2712 (1966)]
- KUTSYKOVICH, M. B.
Coefficients of Linear Expansion of Sodium Iodide Single Crystals. (E) R. V. Bakradze, M. B. Kutsyovich, and Yu. I. Shumakov. *J.* 2543 (1966) [7, 3138 (1966)]
- KUZIN, N. N.
The Temperature Dependence of the Electrical Resistivity of Germanium at Pressures up to 90 kbar. (E) N. N. Kuzin and A. A. Semerchan. *J.* 186 (1965) [7, 244 (1965)]
- KUZ'MIN, E. V.
Boundary Conditions for Magnetoelastic Systems. (T) V. A. Ignatchenko and E. V. Kuz'min. *J.* 1585 (1966) [7, 1952 (1966)]
- KUZNETSOVA, E. M.
The Effect of Damping on Light Absorption in Semiconductors. (T) E. M. Kuznetsova. *J.* 1749 (1966) [7, 2174 (1966)]
- KUZNETSOVA, R. I.
On the Question of the Absolute Value of Submicroporosity Developed in Electrolytic Films After Annealing and Under a Load. (E/T) B. Ya. Pines and R. I. Kuznetsova. *J.* 775 (1965) [7, 961 (1965)]
- KVASHNINA, L. B.
Spectral Distribution of Localized Vibrations. (T) M. A. Ivanov, L. B. Kvashnina, and M. A. Krivoglas. *J.* 1652 (1966) [7, 2047 (1966)]
- KVIRIKADZE, A. G.
Slow Neutron Scattering in Antiferromagnets having Weak Ferromagnetism. (E) V. G. Bar'yakhtar and A. G. Kvirkadze. *J.* 891 (1965) [7, 1110 (1965)]
- KVLIVDZE, V. A.
On the Scattering of Ions by Metallic Surfaces. (T) V. A. Kvlivdze, E. S. Maslova, and V. A. Molchanov. *J.* 491 (1965) [7, 619 (1965)]
- LAGUNOVA, T. S.
Formation and Properties of an Impurity Band in n-Type GaAs. (E/T) O. V. Emel'yanenko, T. S. Lagunova, D. N. Naadlov, and G. N. Talalakin. *J.* 1063 (1965) [7, 1315 (1965)]
- LAIKHTMAN, B. D.
Statistical Model Treatment of Electron-Density Distribution and X-Ray Scattering Intensity for Atoms and Ions in a Lattice. (T) R. I. Antshchenko. *J.* 2609 (1966) [7, 3227 (1966)]
- LANDAU, A. I.
Investigation of Slip Lines in LiF Single Crystals Using Statistical Distribution Graphs of Distances Between Etch Pits. (E/T) V. M. Borzhkovskaya, A. I. Landau, and V. B. Parilskii. *J.* 1719 (1966) [7, 2136 (1966)]
- LANG, I. G.
Spatial Dispersion of Long-Wavelength Optical Oscillations in Polar Semiconductors. (T) I. G. Lang and U. S. Pashabekova. *J.* 2829 (1966) [7, 3502 (1966)]
- LANINA, E. B.
The Energy of Formation and the Concentration of Vacancies in Platinum. (E/T) Yu. A. Kraftmakher and E. B. Lanina. *J.* 92 (1965) [7, 123 (1965)]
- LAPOVOK, B. L.
Compensation of Sublattice Magnetic Moments in Yttrium Iron-Gallium Garnet. (E) B. E. Rubinshtein, A. G. Titova, and B. L. Lapovok. *J.* 1328 (1965) [7, 1639 (1965)]
- LARIKOV, L. N.
Effect of Structure on Young's Modulus and on the Damping Decrement of Aluminum. (E) T. Ya. Beniseva, L. N. Larikov, and I. G. Polotskii. *J.* 1839 (1966) [7, 2273 (1966)]
- LASHKAREV, V. E.
Combined Investigation of the Kinetics of Recombination and Infrared Photocurrent Quenching Processes in Cadmium Sulfide. (T/E) V. E. Lashkarev, A. V. Lyubchenko, and M. K. Shinkman. *J.* 1388 (1965) [7, 1717 (1965)]
- LAUROV, V. P.
Secondary Emission of Germanium Under Bombardment by Potassium Ions Along Various Crystallographic Directions. (E) I. A. Abroyan, V. P. Lavrov, and A. I. Titov. *J.* 2557 (1966) [7, 3159 (1966)]
- LAUROV, V. P.
Angular Dependence of the Secondary Emission Coefficients for a KBr Single Crystal Bombarded with Potassium Ions. (E) I. A. Abroyan, V. P. Lavrov, and I. G. Fedorova. *J.* 2954 (1966) [7, 3669 (1966)]
- LAZAREV, S. D.
Anisotropy of the Even Photomagnetic Effect in p-Type Germanium in Strong Magnetic Fields. (E) I. K. Kikoin and S. D. Lazarev. *J.* 2072 (1966) [7, 2564 (1966)]

- LEBED', B. M.
Investigations of the Temperature and Frequency Dependences of the Ferromagnetic Resonance Line Width in Ferrite Single Crystals Near the Curie Temperature. (E) B. M. Lebed' and K. V. Shelyagin. *J.* 1220 (1965) [*J.* 1819 (1965)]
- LEBEDEVA, E. V.
Parametric Excitation of Spin Waves in Polycrystalline Samples of Mg-Mn Ferrites. (E) A. I. Pil'shchikov and E. V. Lebedeva. *J.* 2677 (1966) [*J.* 3320 (1965)]
- LEBEDEVA, M. V.
Effect of the Substrate on the Structure and Properties of PbTe Films. (T) L. S. Palatnik, V. K. Sorokin, and M. V. Lebedeva. *J.* 1274 (1965) [*J.* 1699 (1965)]
- LEMANOV, V. V.
Compensation of Divalent Metallic Impurities in Alkali-Halide Crystals. (E) M. I. Kornfeld' and V. V. Lemanov. *J.* 1816 (1966) [*J.* 2349 (1965)]
- LEONIDOVA, G. G.
Phase Transition in Barium Titanate at High Hydrostatic Pressure. (E) G. G. Leonidova and T. R. Volk. *J.* 2694 (1966) [*J.* 3344 (1965)]
- LEONT'eva, A. V.
Hardness of Crystalline Methane. (E/T) D. N. Bol'shatkin, A. V. Leon'teva, V. G. Snigirev, and V. I. Startsev. *J.* 2110 (1966) [*J.* 2607 (1965)]
- LETOKHOV, V. S.
Synchronization of Oscillations in a Semiconducting Laser Having Several p-n Junctions. (T) N. G. Basov, E. M. Belenov, and V. S. Letokhov. *J.* 275 (1965) [*J.* 337 (1965)]
- LETUNOV, N. A.
Inelastic Scattering of Electrons by Alkali-Halide Compounds. (T/E) M. V. Gomoyunova and N. A. Letunov. *J.* 311 (1965) [*J.* 387 (1965)]
- LETUNOV, N. A.
Secondary Electron Emission of Alkali-Halide Compounds. (E) M. V. Gomoyunova and N. A. Letunov. *J.* 316 (1965) [*J.* 394 (1965)]
- LETUNOV, N. A.
Energy Spectra of Fast Secondary Electrons Emitted by Alkali-Halide Compounds. (E) M. V. Gomoyunova and N. A. Letunov. *J.* 2437 (1966) [*J.* 2995 (1965)]
- LEV, E. Ya.
Influence of High Pressure on the Electrical Properties of Germanium Telluride. (E/T) A. A. Andreev, L. M. Sysoeva, and E. Ya. Lev. *J.* 520 (1965) [*J.* 652 (1965)]
- LEV, E. Ya.
Energy Spectrum of Carriers in Germanium Telluride. (E/T) L. M. Sysoeva, E. Ya. Lev, and N. V. Kolomoets. *J.* 1791 (1966) [*J.* 2223 (1965)]
- LEV, E. Ya.
Temperature Dependence of the Hall Effect and of the Electrical Conductivity of Germanium Telluride. (E) A. A. Andreev, L. M. Sysoeva, and E. Ya. Lev. *J.* 2066 (1966) [*J.* 2558 (1965)]
- LEVIN, V. S.
Calculation of the Energy Spectra of Ions Having $3d^N$ Configuration in a Cubic Crystal Field. (T) V. V. Druzhinin, V. I. Cherpanov, and V. S. Levin. *J.* 2023 (1966) [*J.* 2513 (1965)]
- LEVINSHTEIN, M. E.
Influence of a Local Surface Irregularity on the Ferromagnetic Resonance Linewidth. (T/E) M. E. Levinshstein. *J.* 301 (1965) [*J.* 363 (1965)]
- LEVINSON, I. B.
Effect of Hot Electron Runaway in n-InSb Temperatures. (T/E) I. B. Levinson. *J.* 1098 (1965) [*J.* 1362 (1965)]
- LEVINSON, I. B.
Hot Electron Mobility Under Runaway Condition in n-InSb and n-GaAs at Low Temperatures. (T) I. B. Levinson. *J.* 1952 (1966) [*J.* 2417 (1965)]
- LEVINSON, I. B.
Piezoelectric Scattering by an Uncharged Dislocation. (T) I. B. Levinson. *J.* 2336 (1966) [*J.* 2879 (1965)]
- LEVYKINA, L. N.
Preparation of Thin Intermetallic Compound Films by the Cathode Sputtering Method. (E) V. E. Yurasova, L. N. Levykina, and V. M. Efremenkova. *J.* 2332 (1966) [*J.* 2875 (1965)]
- LEZGINTEVA, T. N.
Concerning the Structure of Surface Layers in BaTiO₃ Crystals. (E) T. N. Lezgin'teva. *J.* 785 (1965) [*J.* 975 (1965)]
- LI PIN-TSUNG
Transverse Resistance and the Hall Effect in p-Type Germanium in Strong Magnetic Fields in the Temperature Range 78-300°K. (E) E. A. Vasilova, F. F. Bekker, and Li Pin-tsung. *J.* 2328 (1966) [*J.* 2871 (1965)]
- LIFSHITS, I. M.
Surface Phenomena in Ionic Crystals. (T) I. M. Lifshits and Ya. E. Goguzia. *J.* 44 (1965) [*J.* 63 (1965)]
- LIKHTMAN, N. P.
Some Characteristics of the Photoconductivity Kinetics in High-Resistivity n-Type Germanium Samples Doped with Gold. (E/T) S. A. Kaufman, K. M. Kulikov, N. P. Likhthman, and N. Sh. Khaikina. *J.* 668 (1965) [*J.* 837 (1965)]
- LISHINA, A. V.
X-Ray and Optical Investigations of GaAs_{1-x}P_x Crystals. (E) S. A. Abagyan, S. M. Gorodetski, T. B. Zhukova, A. I. Zaslavskii, A. V. Lishina, and V. K. Subashiev. *J.* 153 (1965) [*J.* 200 (1965)]
- LISHINA, A. V.
Semiconductor Quantum Generator Based on a p-n Junction in a GaAs_{1-x}P_x Compound. (E) N. G. Basov, P. G. Eliseev, V. V. Nikitin, A. V. Lishina, V. N. Maslov, and A. Ya. Nabel'skii. *J.* 1539 (1965) [*J.* 1902 (1965)]
- LISITSYN, V. M.
Generation of Vacancies in KBr-Sr Irradiated by a Proton Beam. (E) I. Ya. Melik-Galkazyan and V. M. Lisitsyn. *J.* 1610 (1966) [*J.* 1994 (1965)]
- LITOVCHENKO, N. M.
The Photoconductivity of Silicon Doped with Deep Impurities. (E) K. D. Glushchak, A. D. Denisova, and N. M. Litovchenko. *J.* 2963 (1966) [*J.* 3669 (1965)]
- LITOVCHENKO, V. G.
Investigation of the Effect of Photocarrier Trapping at the Surface of Silicon. (E/T) V. G. Litovchenko, A. P. Gorbunov, and V. P. Kovbasyuk. *J.* 449 (1965) [*J.* 565 (1965)]
- LITOVKINA, L. P.
Electron Paramagnetic Resonance and Spin-Lattice Relaxation of Nonequivalent Systems of Chromium Ions in ZnWO₄ Single Crystals. (E/T) V. A. Atsarkin, L. P. Litovkina, and M. L. Mel'man. *J.* 2502 (1966) [*J.* 3099 (1965)]
- LITVAK-GORSKAYA, L. B.
Anisotropic Absorption of Electromagnetic Waves by Hot Carriers in Semiconductors. (E) E. M. Garshenon, Yu. A. Gurvich, and L. B. Litvak-Gorskaya. *J.* 1111 (1965) [*J.* 1378 (1965)]
- LIVANOVA, L. D.
Paramagnetic Resonance of Trivalent Samarium in Single Crystals of CaF₂. (E) A. A. Antipin, I. N. Kirkin, L. D. Livanova, L. Z. Potvorova, and L. Ya. Shekun. *J.* 1271 (1965) [*J.* 1575 (1965)]
- LOBACHEV, V. P.
Cyclotron Resonance of Hot Electrons. (E/T) V. P. Lobachev and D. A. Khichin. *J.* 375 (1965) [*J.* 470 (1965)]
- LOGINOV, G. M.
Magnetic Susceptibility of Samarium Monosulfide. (E/T) V. E. Adamyan, A. V. Golubkov, and G. M. Loginov. *J.* 239 (1965) [*J.* 301 (1965)]
- LOGINOV, G. M.
Investigation of the Magnetic Susceptibility of Neodymium Chalcogenides. (E) V. E. Adamyan, A. V. Golubkov, G. M. Loginov, and V. N. Fedorov. *J.* 2715 (1966) [*J.* 3372 (1965)]
- LOMAKINA, G. A.
Electrical Properties of Hexagonal SiC with N and B Impurities. (E/T) G. A. Lomakina. *J.* 478 (1965) [*J.* 600 (1965)]

- LONG, V. A.
Thermoelectric Properties of n-Type PbTe at High Temperatures. (E) T. S. Slavitskaya, V. A. Long, and B. A. Efimova. *J.* 2062 (1966) [*J.* 2554 (1965)]
- LUKANTSEV, YU. L.
Influence of Some Structural Factors on the Thermal Stability of Color Centers in Alkali-Halide Crystal Phosphors. (E/T) V. I. Sidlyarenko, F. N. Zaitov, and Yu. L. Lukansever. *J.* 2664 (1966) [*J.* 3302 (1965)]
- LUKASHENKO, L. I.
Investigation of Permalloy Films with "Trans-Critical" Hysteresis Loops. (E) L. S. Palatnik, L. I. Lukashenko, and A. G. Ravlik. *J.* 2285 (1966) [*J.* 2829 (1965)]
- LUKIRSKII, A. P.
Photoionization Absorption in Alkali Halide Crystals in the Range 23-190 Å. (E) T. M. Zimkina and A. P. Lukirskii. *J.* 1170 (1965) [*J.* 1455 (1965)]
- LUKIRSKII, A. P.
Fine Structure of the $L_{II}-II$ Absorption Spectra of Cl in the Compounds LiCl, NaCl, KCl, RbCl, and CsCl. (E) T. M. Zimkina and A. P. Lukirskii. *J.* 1175 (1965) [*J.* 1462 (1965)]
- LUKIRSKII, A. P.
X-Ray Spectra of Silicon in Crystalline and Glassy Quartz and in Lithium Silicate Glasses. (E) O. A. Ershov, D. A. Goganov, and A. P. Lukirskii. *J.* 1903 (1966) [*J.* 2353 (1965)]
- LUK'YANYCHEV, YU. A.
Nuclear-Magnetic-Resonance Investigations of the Trifluorides of Rare-Earth Elements of the Cerium Group. (E) É. A. Baturina, Yu. A. Luk'yanchev, and O. T. Malyuchkov. *J.* 1527 (1965) [*J.* 1892 (1965)]
- LUSHNIKOV, V. G.
Electron Paramagnetic Resonance of Trivalent Ions of Gadolinium and Iron in Synthetic Calcite. (E) V. A. Askarin, V. G. Lushnikov, and L. P. Sorokina. *J.* 1912 (1966) [*J.* 2367 (1965)]
- LUTSKII, V. N.
Transverse Hall Effect and Magnetoresistivity of Ge in Strong Magnetic Fields. (E) V. N. Lutski, A. A. Zhirnov, and M. I. Elina. *J.* 415 (1965) [*J.* 521 (1965)]
- L'VOV, V. S.
Thermal EMF in a Quantizing Magnetic Field in Semiconductors with a Multielectronic Band. (T) V. S. L'vov. *J.* 1362 (1965) [*J.* 1680 (1965)]
- LYASHENKO, S. P.
Concentration-Dependent Shift of the Self-Absorption Edge in Stannic Oxide. (E) V. K. Miloslavskii and S. P. Lyashenko. *J.* 1245 (1965) [*J.* 1550 (1965)]
- LYUBCHENKO, A. V.
Combined Investigation of the Kinetics of Recombination and Infrared Photocurrent Quenching Processes in Cadmium Sulfide. (T/E) V. E. Lashkarev, A. V. Lyubchenko, and M. K. Shekman. *J.* 1388 (1965) [*J.* 1717 (1965)]
- LYUBCHENKO, V. I.
Application of a Mass-Spectroscopic Technique for Studying the Distribution of Microimpurities in Solid Substances. (E/T) G. G. Glavin and V. I. Lyubchenko. *J.* 409 (1965) [*J.* 513 (1965)]
- LYUBUTIN, I. S.
Anomalies in the Coercive Force and Residual Magnetization of Substituted Rare-Earth Ferrite Garnets. (E) I. S. Lyubutin. *J.* 1126 (1965) [*J.* 1397 (1965)]
- LYUTOVICH, A. S.
Radiation Defects in Very Pure Silicon Crystals. (E) V. S. Vavilov, S. I. Vintovkin, A. S. Lyutovich, A. F. Plotnikov, and A. A. Sokolova. *J.* 399 (1965) [*J.* 502 (1965)]
- MAGOMEDOV, YA. B.
Heat Conductivity of Indium Antimonide in the Solid and Liquid State. (E) Kh. I. Amirhanov and Ya. B. Magomedov. *J.* 506 (1965) [*J.* 627 (1965)]
- MAKHIMOV, Z. Z.
On the Instability of Electric Current in Semiconductors Due to Spin-Wave Excitation. (T) Z. Z. Makhimov and V. G. Bar'yakhtar. *J.* 1077 (1966) [*J.* 2082 (1965)]
- MAKOVSKI, F. A.
Optical Properties of Titanium Dioxide Doped with Iron. (E/T) F. A. Makovskii. *J.* 271 (1965) [*J.* 333 (1965)]
- MAKSAKOV, B. I.
Additively Reduced Divalent Rare Earths in Fluorite Crystals. (E) V. A. Arkhangelskiy, B. I. Maksakov, and P. P. Feofilov. *J.* 1827 (1966) [*J.* 2260 (1965)]
- MAKSIMOV, I. A.
A Contribution to the Theory of the Anomalous Hall Effect in Ferromagnetics. (T/E) Yu. Kagan and I. A. Maksimov. *J.* 422 (1965) [*J.* 530 (1965)]
- MAKSIMOVSKI, S. N.
Probability (Yield) of Radiative Recombination in Cadmium Telluride for Electron Excitation. (E) V. S. Vavilov, É. L. Nolle, and S. N. Maksimovskii. *J.* 1253 (1965) [*J.* 1558 (1965)]
- MALEE, S. V.
Three-Dimensional Generalization of the Kronig-Penney Model. (T) S. V. Maleev. *J.* 2423 (1966) [*J.* 2990 (1965)]
- MALEE, S. V.
Certain Polarization Effects in the Scattering of Neutrons in Solids. (T) S. L. Ginsburg and S. V. Maleev. *J.* 2477 (1966) [*J.* 3063 (1965)]
- MALOGOLOVETS, S. S.
Temperature Dependence of the Cross Section for the Capture of Holes by Impurity Centers in Germanium. (E/T) A. D. Belyaev and S. S. Malogolovets. *J.* 1529 (1965) [*J.* 1894 (1965)]
- MAL'TSEV, E. I.
Investigation of the Magnetic Ordering in Ferroelectric $PbFe_{0.5}Nb_{0.5}P_2$. (E) G. M. Drabkin, E. I. Mal'tsev, and V. P. Plakhtii. *J.* 897 (1965) [*J.* 1241 (1965)]
- MAL'TSEV, YU. A.
Investigation of the Self-Absorption Edge of Boron. (E) Sh. Z. Dzhamaigidsa, R. R. Shvangradze, Yu. A. Mal'tsev, and M. F. Gvilyava. *J.* 1259 (1965) [*J.* 1563 (1965)]
- MALYUCHKOV, O. T.
Nuclear-Magnetic-Resonance Investigations of the Trifluorides of Rare-Earth Elements of the Cerium Group. (E) É. A. Baturina, Yu. A. Luk'yanchev, and O. T. Malyuchkov. *J.* 1527 (1965) [*J.* 1892 (1965)]
- MAKSIMOVA, T. I.
Temperature Dependence of the Intensity of the Second-Order Raman Scattering Spectrum of NaCl Crystals. (E) T. I. Maksimova, A. I. Stekhanov, and É. V. Chisler. *J.* 1515 (1965) [*J.* 1881 (1965)]
- MAMAEV, S.
Some Properties of p-Type CdSnAs₂. (E) V. V. Galavanov, N. A. Goryunova, N. M. Korshak, S. Mamaev, and A. Nazarov. *J.* 2949 (1966) [*J.* 3655 (1965)]
- MAMONTOVA, T. N.
Impurity and Induced Photoconductivity of Chalcogenide Glass $TiSe_2As_2Te_2$. (E) B. T. Kolomieta, T. N. Mamontova, and G. I. Stepanov. *J.* 1320 (1965) [*J.* 1630 (1965)]
- MANDEL', V. S.
The Distortion of the NaF Lattice by Impurity Ions. (E) V. S. Mandel'. *J.* 2534 (1966) [*J.* 3130 (1965)]
- MANOILOVA, I. G.
Transport Mechanism in Samarium Sulfide. (E/T) A. V. Golubkov, É. V. Goncharova, V. P. Zhuse, and I. G. Manoilova. *J.* 1963 (1966) [*J.* 2430 (1965)]
- MANZHELI, V. G.
Density of Solidified Gases. (E) A. M. Tolkaev and V. G. Manzheili. *J.* 1711 (1966) [*J.* 2125 (1965)]
- MARGVELASHVILI, I. G.
The Distribution of Charge Near a Prismatic Dislocation Loop in an Ionic Crystal. (T) A. M. Kosevich, I. G. Margvelashvili, and Z. K. Saralidze. *J.* 370 (1965) [*J.* 464 (1965)]
- MARICHEV, V. A.
The Influence of Oxide Films on the Sublimation Kinetics. (T/E) M. B. Bronfin, A. A. Zhukhovitski, and V. A. Marichev. *J.* 2107 (1966) [*J.* 2603 (1965)]

MARIKHIN, V. A.

Variation of Small-Angle X-Ray Diffraction Intensity During Contracting of Polymers. (E) V. A. Marikhin, A. I. Slutsker, and A. A. Yastrebinski. *J.* 352 (1965) [7, 441 (1965)]

MARINCHUK, M. E.

External Photoeffect in Highly Doped Semiconductors. Allowance for Electron-Electron Interaction. (T) M. E. Marinchuk. *J.* 2625 (1966) [7, 346 (1965)]

MARKOVA, I. A.

Effective Electron Mass and Optical Forbidden-Band Width of Indium Arsenide Films. (E/T) S. G. Shal'man and Yu. I. Ukhonov. *J.* 768 (1965) [7, 952 (1965)]

MARTISOVSKAYA, E. G.

Secondary Electron Emission of Some Aromatic Hydrocarbons. (E/T) E. G. MartISOVSKAYA. *J.* 661 (1965) [7, 828 (1965)]

MARTYENKO, G. P.

Certain Photoelastic Properties of Gallium Arsenide and Silicon. (T/E) V. I. Nikitenko and G. P. Martynenko. *J.* 494 (1965) [7, 494 (1965)]

MAR'YAMOVA, I. I.

Tensoeffect in Filamentary Single Crystals of Silicon, Grown from the Gaseous Phase. (E) A. V. Sandulova, I. I. Mar'yamova, and Yu. I. Zagonyach. *J.* 1277 (1965) [7, 1581 (1965)]

MASH, I. D.

Appearance of Cross Relaxation and the Spectrum of Exchange-Coupled Ion Pairs in Paramagnetic Crystals. (T/E) I. D. Mash and M. I. Rodsk. *J.* 576 (1965) [7, 717 (1965)]

MASHKEVICH, V. S.

Theory of Laser Emission via Band-to-Band Transitions in Impurity Semiconductors. (T) G. Yu. Baryakovskii, V. L. Vinetskii, and V. S. Mashkevich. *J.* 827 (1965) [7, 1028 (1965)]

MASHKEVICH, V. S.

Generation of Laser Radiation by Direct Transitions in a Semiconductor. (T) V. L. Vinetskii and V. S. Mashkevich. *J.* 1534 (1965) [7, 1898 (1965)]

MASHKEVICH, V. S.

Theory of Laser Emission Associated with Indirect Band-to-Band Transitions. (T) V. S. Mashkevich and V. L. Vinetskii. *J.* 1605 (1966) [7, 1987 (1965)]

MASHKOVA, E. S.

On the Scattering of Ions by Metallic Surfaces. (T) V. A. Kvivide, E. S. Mashkova, and V. A. Molchanov. *J.* 491 (1965) [7, 619 (1965)]

MASHKOVA, E. S.

Influence of the Crystal Structure of the Target on the Energy Spectra of Scattered Ions. (E) E. S. Mashkova and V. A. Molchanov. *J.* 1506 (1965) [7, 1872 (1965)]

MASHKOVA, E. S.

Scattering of Ions by the Surfaces of Alloys. (E) E. S. Mashkova, V. A. Molchanov, V. Soshka, and M. A. Faruk. *J.* 2371 (1966) [7, 2921 (1965)]

MASHKOVICH, M. D.

Dielectric Properties of Glasses of the $\text{MeO}-\text{Al}_2\text{O}_3-\text{SiO}_2$ System. (E) M. D. Mashkovich and N. G. Udovenko. *J.* 417 (1965) [7, 524 (1965)]

MASHKOVICH, M. D.

On the Nature of the Dielectric Losses in Glasses at UHF. (E) M. D. Mashkovich and E. N. Smelyanskaya. *J.* 811 (1965) [7, 1008 (1965)]

MASHKOVICH, M. D.

Investigation of Some Inorganic Dielectric Materials in the Far Infrared. (E) M. D. Mashkovich and A. I. Domeschina. *J.* 1323 (1965) [7, 1634 (1965)]

MASHOVETS, T. V.

The Energy Structure of γ -Radiation Defects in Germanium. (E/T) T. V. Mashovets and R. Yu. Khansevarov. *J.* 345 (1965) [7, 308 (1965)]

MASHOVETS, T. V.

Energy Spectrum of Defects Formed in Indium Antimonide by γ Irradiation at Low Temperatures. (E) T. V. Mashovets and R. Yu. Khansevarov. *J.* 1796 (1966) [7, 2229 (1965)]

MASLOV, A. A.

Electrical Properties of Ge-GaAs Heterojunctions. (E) V. K. Aladinaki and A. A. Maslov. *J.* 2789 (1966) [7, 3452 (1965)]

MASLOV, V. N.

Semiconductor Quantum Generator Based on a p-n Junction in a $\text{GaAs}_{1-x}\text{P}_x$ Compound. (E) N. G. Basov, P. G. Eliseev, V. V. Nikitin, A. V. Lishina, V. N. Maslov, and A. Ya. Nashed'ski. *J.* 1539 (1965) [7, 1902 (1965)]

MATVEEV, V. V.

Influence of an Electric Field on the Position of the Optical Absorption "Edge" in Polycrystalline Films of CdS. (E/T) K. I. Britayev, B. A. Volkov, V. V. Matveev, and A. A. Smirnov. *J.* 2044 (1966) [7, 2536 (1965)]

MAZALOV, L. N.

Investigation of the Valence Band in Alkali Chloride Crystals from X-Ray Emission Spectra. (E) E. E. Vainstein, L. N. Mazalov, and V. G. Zyrjanov. *J.* 882 (1965) [7, 1099 (1965)]

MEILIKHOV, E. Z.

Determination of the Parameters of Trapping and Recombination Levels in CdS. (T/E) E. Z. Melikhov. *J.* 1228 (1965) [7, 1529 (1965)]

MEILIKHOV, E. Z.

The Anomalous Temperature Dependence of the Carrier Mobility in Selenium. (E/T) E. Z. Melikhov. *J.* 1407 (1965) [7, 1743 (1965)]

MEIL'MAN, M. L.

Electron Paramagnetic Resonance and Spin-Lattice Relaxation of Nonequivalent Systems of Chromium Ions in ZnWO_4 Single Crystals. (E/T) V. A. Atsarkin, L. P. Litovkina, and M. L. Meil'man. *J.* 2502 (1966) [7, 3099 (1965)]

MEIL'MAN, M. L.

Paramagnetic Resonance of Gadolinium in Synthetic Powellite. (E) M. L. Meil'man and N. N. Solov'ev. *J.* 2512 (1966) [7, 3108 (1965)]

MEISNER, L. B.

Optical Anisotropy of Tetragonal Single Crystals of Barium and Lead Titanates. (T) L. B. Meisner and A. S. Sonin. *J.* 2951 (1966) [7, 3657 (1965)]

MELIK-BARKHUDAROV, T. K.

The Specific Heat Jump in Superconductors. (T) T. K. Melik-Barkhudarov. *J.* 1103 (1965) [7, 1368 (1965)]

MELIK-GAIKAZYAN, I. Ya.

Generation of Vacancies in KBr-Sr Irradiated by a Proton Beam. (E) I. Ya. Melik-Gaikazyan and V. M. Lisitsyn. *J.* 1610 (1966) [7, 1994 (1965)]

MELIK-GAIKAZYAN, I. Ya.

Accumulation of F-Centers in Sulfur-Doped KCl. (E) I. Ya. Melik-Gaikazyan, L. I. Rooshchina, and M. I. Ignat'eva. *J.* 2802 (1966) [7, 3465 (1965)]

MEL'NIK, V. L.

Resonance Effects in Zinc in an Inclined Magnetic Field. (E/T) V. P. Naberezhnykh and V. L. Mel'nik. *J.* 197 (1965) [7, 258 (1965)]

MEL'NIK, Yu. P.

The Structure of Barium Oxide Films on the (110) Face of a Tungsten Single Crystal. (E) D. A. Gorodetskii and Yu. P. Mel'nik. *J.* 2248 (1966) [7, 2780 (1965)]

MEL'NIKOV, V. I.

Diffusion of "Hot" Electrons in n-n Heterojunctions. (T) Z. S. Gribnikov and V. I. Mel'nikov. *J.* 1612 (1966) [7, 1997 (1965)]

MEL'NIKOV, V. I.

Injection and Extraction of Hot Electrons in n-n Heterojunctions with Rapid Maxwellization of the Electron Gas. (T) Z. S. Gribnikov and V. I. Mel'nikov. *J.* 2364 (1966) [7, 2912 (1965)]

MEN', A. N.

Calculation of the Parameters of the Spin Hamiltonian of Cr^{3+} in MgAl_2O_4 . (T) V. I. Cherepanov and A. N. Men'. *J.* 219 (1965) [7, 282 (1965)]

MEN', A. N.

Problem of the Energy Spectrum of the Fe^{3+} Ion in Connection with the Electrical Conductivity of Ferrite Spins. (T) A. A. Samokhvalov and A. N. Men'. *J.* 221 (1965) [7, 283 (1965)]

MEN', A. N.

Inclusion of Term "Interaction" in Calculating the EPR Spectra of Ions of the Iron Group. (T) A. N. Men', F. I. Mufakhova, A. P. Nikolaev, and V. I. Cherepanov. *J.* 1754 (1966) [7, 2180 (1965)]

MEN', A. N.

The Calculation of the Elastic Binding Coefficients and the Compressibility of Spinel. (T/E) V. S. Chudakov and A. N. Men'. *J.* 1821 (1966) [*J.* 2254 (1965)]

MEN', A. N.

Calculation of the Paramagnetic Susceptibility of Cr^{3+} in MgAl_2O_4 . (T) V. I. Potorocha and A. N. Men'. *J.* 1823 (1966) [*J.* 2256 (1965)]

MESHKOV, A. M.

Mechanism of the Formation and Motion of Photoconductive Carriers in Dyes. (T/E) A. M. Meshkov. *J.* 2804 (1966) [*J.* 3468 (1965)]

MESHKOVA, G. N.

Electrical Resistance and Thermoelectric Power of La-Ce, La-Pr, and Pr-Nd Alloys. (E) M. V. Vedernikov, I. A. Markova, and G. N. Meshkova. *J.* 766 (1965) [*J.* 950 (1965)]

MESKIN, S. S.

Recombination Radiation of p-n Tunnel Junctions in GaAs. (E) A. N. Imenkov, M. M. Kozlov, S. S. Meskin, D. N. Nasledov, V. N. Ravich, and B. V. Tsarenkov. *J.* 504 (1965) [*J.* 634 (1965)]

MESKIN, S. S.

Electroluminescence Spectra of Strongly Degenerate Gallium Arsenide. (E/T) A. N. Imenkov, M. M. Kozlov, S. S. Meskin, D. N. Nasledov, V. N. Ravich, and B. V. Tsarenkov. *J.* 618 (1965) [*J.* 775 (1965)]

MESKIN, S. S.

Influence of Impurities on the Recombination Radiation Spectra of Gallium Arsenide. (E) A. N. Imenkov, L. M. Kogan, M. M. Kozlov, S. S. Meskin, D. N. Nasledov, and B. V. Tsarenkov. *J.* 2519 (1966) [*J.* 3115 (1965)]

MIKAL'KEVICHYUS, M. P.

Pressure Dependence of the Fundamental Absorption Edge of Selenium Single Crystals. (E/T) V. Yu. Krishchunas, M. P. Mikal'kevichyus, and A. Yu. Shileika. *J.* 2080 (1966) [*J.* 2571 (1965)]

MIKAL'KEVICHYUS, M. P.

Thermally Stimulated Thermal EMF. (T/E) B. P. Grigas and M. P. Mikal'kevichyus. *J.* 2942 (1966) [*J.* 3649 (1965)]

MIKHAILOVA, M. P.

Shift of the Spectral Photosensitivity of p-n Junctions in InAs in an Electric Field. (E/T) M. P. Mikhailova, D. N. Nasledov, and S. V. Stobodzhikov. *J.* 1031 (1965) [*J.* 1272 (1965)]

MIKHAILOVSKII, I. M.

Direct Observation of the Reestablishment of Contacts Between Fragments of a Tungsten Microcrystal. (E) R. I. Garber, Zh. I. Drasnova, and I. M. Mikhailovskii. *J.* 395 (1965) [*J.* 496 (1965)]

MIKHAI'CHENKO, G. A.

Appearance of an EMF on the Annealing of NaCl:Ag Single Crystals Irradiated with Beta-Particles. (E) V. P. Ardonin, I. A. Vasil'ev, G. A. Mikhail'chenko, B. T. Plachenov, and V. A. Shibaev. *J.* 2514 (1966) [*J.* 3110 (1965)]

MIKHAI'LTEVA, T. V.

Long-Wave Infrared Transmission Spectra of KH_2PO_4 . (E) I. M. Arde'ev, P. A. Bazhulin, and T. V. Mikhail'teva. *J.* 1948 (1966) [*J.* 2413 (1965)]

MIKOLAICHUK, A. G.

Structure of In_2Bi in the Amorphous State. (E) Ya. I. Dutchak and A. G. Mikolaichuk. *J.* 1789 (1966) [*J.* 2213 (1965)]

MILESHKINA, N. V.

Experimental Investigation of the Energy Spectrum and Emission Properties of Thin Germanium Films on Tungsten. (E) N. V. Milieshkina and I. L. Sokol'skaya. *J.* 838 (1965) [*J.* 1043 (1965)]

MILEVSKII, L. S.

Dislocation Structure of Crystals with the Diamond Lattice, Grown Along the [100] Direction. (E) L. S. Milevskii and V. D. Khvoletkova. *J.* 2681 (1966) [*J.* 3326 (1965)]

MILOSLAVSKII, V. K.

Concentration-Dependent Shift of the Self-Absorption Edge in Stannic Oxide. (E) V. K. Miloslavskii and S. P. Lyashenko. *J.* 1245 (1965) [*J.* 1550 (1965)]

MILOVANOV, Yu. P.

The Contribution of Isolated and Group Defects to the Change in Carrier Mobility and Concentration in n-Ge During Bombardment by Fast Neutrons. (E/T) K. L. Starostin, Yu. P. Tuturov, and Yu. P. Milovanov. *J.* 2347 (1966) [*J.* 2890 (1965)]

MIL'VIDSKII, M. G.

Investigation of the Infrared Absorption Spectrum of n-Type Gallium Arsenide. (E) M. G. Mil'vidskii, V. B. Ovenskii, E. P. Raikovskaya, and T. G. Yugova. *J.* 2784 (1966) [*J.* 3445 (1965)]

MIL'VIDSKII, M. G.

Dislocation Decoration in Gallium Arsenide Crystals. (E) M. G. Mil'vidskii, V. B. Ovenskii, and T. G. Yugova. *J.* 2791 (1966) [*J.* 3454 (1965)]

MINAEVA, K. A.

Some Features of the Pulse Polarization Reversal of Internally Polarized Crystals of Triglycine Sulfate. (E) B. A. Strukov and K. A. Minaeva. *J.* 2887 (1966) [*J.* 3579 (1965)]

MINEEVA, R. M.

Nuclear Magnetic Resonance Associated with the Nuclei of Paramagnetic Atoms. (T) S. A. Al'tahler and R. M. Mineeva. *J.* 247 (1965) [*J.* 310 (1965)]

MIRIANASHVILI, Sh. M.

Possibility of Transmutation Doping of Indium Antimonide. (E) Sh. M. Mirianashvili, D. I. Nanchashvili, and Z. G. Razmadze. *J.* 2877 (1966) [*J.* 3566 (1965)]

MIRLIN, D. N.

Possible Effect of Quasiloal Lattice Vibrations on the Infrared Absorption and Thermal Conductivity of KCl-H Crystals. (E) D. N. Mirlin, V. S. Oskotskii, I. I. Reshina, I. A. Smirnov, V. V. Tikhonov, and I. S. Zhurkov. *J.* 2433 (1966) [*J.* 3003 (1965)]

MIRYASOV, N. Z.

Temperature Dependence of the Ferromagnetic Resonance Parameters in Ferrites with Induced Uniaxial Magnetic Anisotropy. (E) N. Z. Miryasov and V. A. Semkina. *J.* 1273 (1965) [*J.* 1577 (1965)]

MIRZABAEV, M.

Piezomagnetoresistance in n-Type Germanium. (T/E) M. Mirzabaev, V. M. Tuckevich, and Yu. V. Shmartsev. *J.* 2774 (1966) [*J.* 3437 (1965)]

MIRZAMAKHMUDOV, T.

Narrow-Band-Gap Semiconductor Films which Develop Photovoltages up to 5000 V. (E) E. I. Adirovich, T. Mirzamakhmudov, V. M. Rubinov, and Yu. M. Yuabov. *J.* 2646 (1966) [*J.* 3652 (1965)]

MISHINOVA, G. I.

Line and Band Luminescence Spectra of α -SiC (6H) Crystals. (E) I. S. Gorbun', G. I. Mishinova, and Yu. M. Sulismanov. *J.* 2991 (1966) [*J.* 3694 (1965)]

MITSEK, A. I.

Spectrum of Spin Waves in Ferro-Antiferromagnets. (T) A. I. Mitsek and V. K. Zvezdin. *J.* 848 (1965) [*J.* 1057 (1965)]

MITSEK, A. I.

Behavior of a Cylindrical Domain Boundary of a Magnetically Uniaxial Ferromagnet in a Magnetic Field. (T) A. I. Mitsek. *J.* 1599 (1966) [*J.* 1979 (1965)]

MITSKEVICH, V. V.

Temperature Coefficients of the Elastic Moduli of Alkali-Halide Crystals. (T/E) V. V. Mitskevich and S. P. Nikanorov. *J.* 657 (1965) [*J.* 823 (1965)]

MIZGIREVA, L. P.

Change in the Transparency of p-Type Germanium in Strong Electric Fields. (E) L. E. Vorob'ev, L. P. Mizgireva, U. B. Soltamov, V. I. Stafeev, and A. V. Shurtalia. *J.* 2740 (1966) [*J.* 3404 (1965)]

MOCHAN, I. V.

The Effect of Microinhomogeneities on the Nernst Effect in InSb. (E) I. L. Drichko and I. V. Mochan. *J.* 2634 (1966) [*J.* 3260 (1965)]

MOIZHES, B. Ya.

Thermal and Electrical Properties and the Forbidden Band Width of the Bi_2Te_3 - Sb_2S_3 Solid-Solution System. (E/T) V. A. Kutasov, B. Ya. Moizhes, and I. A. Smirnov. *J.* 854 (1965) [*J.* 1065 (1965)]

- MOIZHES, B. Ya.**
Effect of Random Inhomogeneities on the Measurement of the Thermal emf and the Néron Coefficient in a Strong Magnetic Field. (T) V. A. Kudinov and B. Ya. Moizhes. *J.* 1908 (1966) [*J.* 2309 (1965)]
- MOIZHES, B. Ya.**
Band Model of SnTe . (E/T) B. A. Efimova, V. I. Kaldanov, B. Ya. Moizhes, and I. A. Chernik. *J.* 2032 (1966) [*J.* 2524 (1965)]
- MOKEROV, V. G.**
Narrow-Line Luminescence of Hexagonal ZnS Crystals. (E/T) E. F. Gross, L. G. Suslina, and V. G. MokeroV. *J.* 229 (1965) [*J.* 291 (1965)]
- MOLCHANOV, M. I.**
Influence of an Electric Field on the Frequency Dependence of the Generation-Recombination Noise in Boron-Doped Silicon. (E) É. É. Godik and M. I. Molchanov. *J.* 2958 (1966) [*J.* 3664 (1965)]
- MOLCHANOV, V. A.**
On the Scattering of Ions by Metallic Surfaces. (T) V. A. Kvilidze, S. S. Mashkova, and V. A. Molchanov. *J.* 491 (1965) [*J.* 619 (1965)]
- MOLCHANOV, V. A.**
Influence of the Crystal Structure of the Target on the Energy Spectra of Scattered Ions. (E) E. S. Mashkova and V. A. Molchanov. *J.* 1506 (1965) [*J.* 1872 (1965)]
- MOLCHANOV, V. A.**
Scattering of Ions by the Surfaces of Alloys. (E) E. S. Mashkova, V. A. Molchanov, V. Soshka, and M. A. Faruk. *J.* 2371 (1966) [*J.* 2921 (1965)]
- MORDYUK, V. S.**
Low-Frequency Internal Friction in Plastically Deformed Solids. (E) L. N. Aleksandrov, V. S. Mordyuk, and E. F. Savina. *J.* 2552 (1966) [*J.* 3153 (1965)]
- MOROZOV, A. I.**
Dependence of the Coefficient of Absorption of Ultrasound in Cadmium Sulfide Crystals on the Illumination. (E/T) A. I. Morozov. *J.* 261 (1965) [*J.* 384 (1965)]
- MOROZOV, A. I.**
Effect of the Spectral Composition of Illumination on the Amplification of Ultrasound in Cadmium Sulfide. (E/T) S. G. Kalashnikov, A. I. Morozov, B. A. Stankovskii, and L. A. Sysoev. *J.* 1782 (1966) [*J.* 2215 (1965)]
- MOROZOV, A. I.**
Investigation of the Acoustoelectric Effect in Cadmium Sulfide Crystals. (E) A. I. Morozov. *J.* 2452 (1966) [*J.* 3070 (1965)]
- MOROZOV, N. A.**
Nonlinear Properties of a Ferroelectric Ceramic in Strong Microwave Fields. (E) I. V. Ivanov and N. A. Morozov. *J.* 2923 (1966) [*J.* 3627 (1965)]
- MUFTAKHOVA, F. I.**
Inclusion of Term "Interaction" in Calculating the EPR Spectra of Ions of the Iron Group. (T) A. N. Men', F. I. Muftakhova, A. P. Nikolshev, and V. I. Cherepanov. *J.* 1754 (1966) [*J.* 2180 (1965)]
- MURASHOV, M. S.**
Radiative Recombination in Germanium Crystals Having a High Density of Dislocations. (E/T) A. A. Gippius, V. S. Vavilov, L. A. Goncharov, and M. S. Murashov. *J.* 513 (1965) [*J.* 645 (1965)]
- MURAVSKII, B. S.**
Electrical Excitation of "Fast" States as a Method of Investigating Their Parameters. (E/T) B. S. Muravskii. *J.* 273 (1965) [*J.* 334 (1965)]
- MURAVSKII, B. S.**
Current Oscillations in Compensated Germanium and Silicon. (E) B. S. Muravskii, V. S. Guskov, N. G. Krushchina, and A. G. Shved. *J.* 2748 (1966) [*J.* 3412 (1965)]
- MURIN, A. N.**
Mössbauer Effect in Indium Antimonide. (E/T) G. N. Belozerskii, I. A. Gusev, A. N. Murin, and Yu. A. Nemilov. *J.* 1012 (1965) [*J.* 1254 (1965)]
- MURTAZIN, Sh. F.**
Nuclear Resonance Absorption of Ultrasound in Crystals Containing Paramagnetic Impurities. (T) Sh. F. Murtazin. *J.* 1368 (1965) [*J.* 1690 (1965)]
- MUSABEKOV, T. Yu.**
Impedance of a Dielectric Diode with Traps. (T) T. Yu. Musabekov and V. B. Sandomirskii. *J.* 1366 (1965) [*J.* 1687 (1965)]
- MUZALEVSKII, E. A.**
Generation of Current Pulses by CDS Single Crystals. (E) S. L. Shakhovtsova, I. D. Kosozenko, and E. A. Musalevskii. *J.* 214 (1965) [*J.* 278 (1965)]
- MUZHDAVA, V. M.**
Magnetophonon Oscillation of Thermal emf in n-InSb in a Longitudinal Magnetic Field. (E/T) V. M. Muzhdava, R. V. Parfen'ev, and S. S. Shalyt. *J.* 1922 (1966) [*J.* 2379 (1965)]
- MYL'NIKOVA, I. E.**
Investigation of Ferri Garnet Crystals Containing Vanadium. (E) A. N. Ageev, M. M. Venetkaya, G. A. Zablotskii, I. E. Myl'nikova, R. V. Pisarev, and O. B. Proskuryakov. *J.* 2310 (1966) [*J.* 2853 (1965)]
- MYL'NIKOVA, I. E.**
Structure and Magnetic Properties of BiMnO_3 . (E) V. A. Bokov, I. E. Myl'nikova, S. A. Kizhaev, M. F. Bryzhina, and N. A. Grigoryan. *J.* 2993 (1966) [*J.* 3695 (1965)]
- MYSHLYAEV, M. M.**
On the Dislocation Structure of Aluminum During Creep. (E) M. M. Myshlyayev. *J.* 468 (1965) [*J.* 591 (1965)]
- NABEREZHNYKH, V. P.**
Resonance Effects in Zinc in an Inclined Magnetic Field. (E/T) V. P. Naberezhnykh and V. L. Mel'nik. *J.* 197 (1965) [*J.* 258 (1965)]
- NABOKA, M. N.**
The Condensation Diagram of Bi-Sb Alloys. (E) L. S. Palatnik, N. T. Gladikh, and M. N. Naboka. *J.* 887 (1965) [*J.* 1106 (1965)]
- NABOKA, M. N.**
Investigation of Condensed ZnS -CdS and Zn -Cd-S Films of Variable Composition. (E) L. S. Palatnik, N. T. Gladikh, and M. N. Naboka. *J.* 2306 (1966) [*J.* 2850 (1965)]
- NABUTOVSKII, V. M.**
The Effect of Electron Collision with the Specimen Boundaries on Ultrasound Absorption in a Metal. (T) V. M. Nabutovskii. *J.* 2897 (1966) [*J.* 3591 (1965)]
- NADYKTO, B. T.**
Application of the Method of Secondary Ion-Ion Emission to the Study of the Interaction of Oxygen with a Niobium Surface. (E) V. I. Shvachko, B. T. Nadykto, Ya. M. Fogel', B. M. Vasyutinskii, and G. N. Kartmazov. *J.* 1572 (1966) [*J.* 1944 (1965)]
- NADZHAKOV, G.**
Method of Measuring the Contact Potential Difference and its Change Under the Influence of Light in Single-Crystal Cadmium Sulfide. (E) G. Nadzhakov and S. Balabanov. *J.* 957 (1965) [*J.* 1193 (1965)]
- NAGAEV, É. L.**
A Spin Mechanism for the Transport of Charge and Energy. General Relations. (T) É. L. Nageev. *J.* 2407 (1966) [*J.* 2969 (1965)]
- NAGAEV, É. L.**
Spin Mechanism for Charge and Energy Transport. Antiferromagnetic and Paramagnetic States. (T) É. L. Nageev. *J.* 2455 (1966) [*J.* 3033 (1965)]
- NAGIEV, V. M.**
An Investigation of Vanadium Phosphate Glasses by Electron Paramagnetic Resonance. (E/T) V. M. Nageev. *J.* 2204 (1966) [*J.* 2726 (1965)]
- NAKHMANSON, R. S.**
The Effect of an External Electric Field on the Characteristics of p-n, p-n-p, and p-n-p-n Structures. (E) R. S. Nakhmansson. *J.* 1251 (1965) [*J.* 1556 (1965)]

NAKHMANSO, R. S.

Inclusion of Recombination Within the Space-Charge Region Near the Surface of a Semiconductor. (T) R. S. Nakhmanson. *J.* 2776 (1965) [*J.* 3439 (1965)]

NAKHODKIN, N. G.

Inelastic Scattering of Electrons in Thin Films. (T/E) N. G. Nakhodkin, A. A. Ostroukhov, and V. A. Romanovskii. *J.* 161 (1965) [*J.* 210 (1965)]

NAKHODKIN, N. G.

Effect of the Atomic Screening Factor on the Inelastic Scattering of Electrons. (T/E) N. G. Nakhodkin, A. A. Ostroukhov, and V. A. Romanovskii. *J.* 1256 (1965)

NANOBASHVILI, D. I.

Possibility of Transmutation Doping of Indium Antimonide. (E) Sh. M. Mirianashvili, D. I. Nanobashvili, and Z. G. Razmadze. *J.* 2877 (1966) [*J.* 3566 (1965)]

NASHEL'SKII, A. Ya.

Thermal Conductivity and Thermoelectric Powers of α -Type Indium Phosphide at Low Temperatures. (E) S. A. Aliev, A. Ya. Nashed'skii, and S. S. Shalyt. *J.* 1287 (1965) [*J.* 1590 (1965)]

NASHEL'SKII, A. Ya.

Semiconductor Quantum Generator Based on a p-n Junction in a $\text{GaAs}_{1-x}\text{P}_x$ Compound. (E) N. G. Basov, P. G. Eliseev, V. V. Nikitin, A. V. Lishina, V. N. Maslov, and A. Ya. Nashed'skii. *J.* 1539 (1965) [*J.* 1902 (1965)]

NASLEDOV, D. N.

Spectral Characteristics of Gallium Arsenide Photocells. (E) A. A. Gufkin, D. N. Nasledov, and V. E. Sedov. *J.* 58 (1965) [*J.* 81 (1965)]

NASLEDOV, D. N.

Recombination Radiation of p-n Tunnel Junctions in GaAs. (E) A. N. Imenkov, M. M. Kozlov, S. S. Meskin, D. N. Nasledov, V. N. Ravich, and B. V. Tsarenkov. *J.* 504 (1965) [*J.* 634 (1965)]

NASLEDOV, D. N.

Electroluminescence Spectra of Strongly Degenerate Gallium Arsenide. (E/T) A. N. Imenkov, M. M. Kozlov, S. S. Meskin, D. N. Nasledov, V. N. Ravich, and B. V. Tsarenkov. *J.* 618 (1965) [*J.* 775 (1965)]

NASLEDOV, D. N.

Shift of the Spectral Photosensitivity of p-n Junctions in InAs in an Electric Field. (E/T) M. P. Mikhailova, D. N. Nasledov, and S. V. Slobodchikov. *J.* 1031 (1965) [*J.* 1272 (1965)]

NASLEDOV, D. N.

Electric and Photoelectric Properties of ZnSiP_2 . (E) N. A. Goryunova, F. P. Kesamany, D. N. Nasledov, V. V. Negreskul, Yu. V. Rud', and S. V. Slobodchikov. *J.* 1060 (1965) [*J.* 1312 (1965)]

NASLEDOV, D. N.

Formation and Properties of an Impurity Band in n-Type GaAs. (E/T) O. V. Emel'yanenko, T. S. Lagunova, D. N. Nasledov, and G. N. Talalakina. *J.* 1063 (1965) [*J.* 1315 (1965)]

NASLEDOV, D. N.

Electron-Hole Transition in a Highly Degenerate Semiconductor at Excessive Current Densities. (T/E) A. N. Imenkov, M. M. Kozlov, D. N. Nasledov, and B. V. Tsarenkov. *J.* 1190 (1965) [*J.* 1480 (1965)]

NASLEDOV, D. N.

Effect of Copper on the Electrical Properties of Gallium Arsenide. (E) O. V. Emel'yanenko, E. E. Klotyn'sh, and D. N. Nasledov. *J.* 1292 (1965) [*J.* 1595 (1965)]

NASLEDOV, D. N.

Temperature Dependence of the Effective Electron Mass in Indium Antimonide. (T/E) V. V. Galavanyov, D. N. Nasledov, and A. S. Filipchenko. *J.* 1541 (1965) [*J.* 1904 (1965)]

NASLEDOV, D. N.

Investigation of the Nonequilibrium Carrier Lifetime and Noise in p-Type InSb. (E/T) A. D. Berkeliev, A. S. Volkov, V. V. Galavanyov, and D. N. Nasledov. *J.* 1545 (1965) [*J.* 1908 (1965)]

NASLEDOV, D. N.

Electrical Properties of Gallium Phosphide Doped with Tellurium. (E/T) D. N. Nasledov, V. V. Negreskul, and S. V. Slobodchikov. *J.* 1548 (1965) [*J.* 1912 (1965)]

NASLEDOV, D. N.

Concerning the Role of Trapping Levels in the Photoconductivity of GaAs. (E) N. M. Voronkova and D. N. Nasledov. *J.* 2050 (1966) [*J.* 2542 (1965)]

NASLEDOV, D. N.

Influence of Impurities on the Recombination Radiation Spectra of Gallium Arsenide. (E) A. N. Imenkov, L. M. Kogan, M. M. Kozlov, S. S. Meskin, D. N. Nasledov, and B. V. Tsarenkov. *J.* 2519 (1966) [*J.* 3115 (1965)]

NASLEDOV, D. N.

Photoconductivity Oscillation in GaP. (E) D. N. Nasledov, V. V. Negreskul, S. I. Radatsan, and S. V. Slobodchikov. *J.* 2965 (1966) [*J.* 3671 (1965)]

NASLEDOV, D. N.

The Effect of Deep Acceptor Levels on the Electrical Properties of p-InSb. (E) A. D. Berkeliev, V. V. Galavanyov, and D. N. Nasledov. *J.* 2980 (1966) [*J.* 3685 (1965)]

NASYROV, A.

Ferroacoustic Resonance for Longitudinal Ultrasonic Waves. (E) G. A. Smolenskii and A. Nasirov. *J.* 3002 (1966) [*J.* 3704 (1965)]

NATSKI, V. D.

Equation of Motion of a Dislocation in an Anisotropic Medium. (T) A. M. Kosevich and V. D. Natanski. *J.* 22 (1965) [*J.* 33 (1965)]

NAUMOV, A. N.

Methods for Determining the Isotopic Diffusion Effect in a Solid. (T/E) A. N. Naumov and V. B. Ptashnik. *J.* 543 (1965) [*J.* 677 (1965)]

NAUMOV, A. N.

Isotopic Effect in the Diffusion of Lithium in Sodium. (E) A. N. Naumov and G. Ya. Ryskin. *J.* 558 (1965) [*J.* 695 (1965)]

NAZAROV, A.

Some Properties of p-Type CdSnAs_2 . (E) V. V. Galavanyov, N. A. Goryunova, N. M. Korshak, S. Mamaev, and A. Nazarov. *J.* 2949 (1966) [*J.* 3655 (1965)]

NEIDLIN, G. M.

On the Problem of the Possible Magnetic Structures in YMoO_4 -Type Antiferromagnets. (T) G. M. Nodlin. *J.* 592 (1965) [*J.* 739 (1965)]

NEGRESKUL, V. V.

Electric and Photoelectric Properties of ZnSiP_2 . (E) N. A. Goryunova, F. P. Kesamany, D. N. Nasledov, V. V. Negreskul, Yu. V. Rud', and S. V. Slobodchikov. *J.* 1060 (1965) [*J.* 1312 (1965)]

NEGRESKUL, V. V.

Electrical Properties of Gallium Phosphide Doped with Tellurium. (E/T) D. N. Nasledov, V. V. Negreskul, and S. V. Slobodchikov. *J.* 1549 (1965) [*J.* 1912 (1965)]

NEGRESKUL, V. V.

Photoconductivity Oscillation in GaP. (E) D. N. Nasledov, V. V. Negreskul, S. I. Radatsan, and S. V. Slobodchikov. *J.* 2965 (1966) [*J.* 3671 (1965)]

NEKRASOVA, L. G.

Effect of Cathode Material on the Electrical Strength of a Solid Dielectric. (E) G. A. Vorob'ev and L. G. Nekrasova. *J.* 800 (1965) [*J.* 995 (1965)]

NEKRASOVA, L. G.

Investigation of Impulse Breakdown in Solid Dielectrics. (E) A. V. Baranov, L. G. Nekrasova, and N. I. Dimova. *J.* 2030 (1966) [*J.* 2523 (1965)]

NEMILOV, Yu. A.

Mossbauer Effect in Indium Antimonide. (E/T) G. N. Beloseraskii, I. A. Gusev, A. N. Murin, and Yu. A. Nemilov. *J.* 1013 (1965) [*J.* 1254 (1965)]

- NEMILOV, Yu. A.**
Mössbauer Effect in InP and GaAs. (E) G. N. Belozerski, Yu. A. Nemilov, S. B. Tomilov, and A. V. Shvedchikov. *J.* 2908 (1966) [7, 3607 (1965)]
- NESES, E. I.**
Effect of Weak Interaction Between Layers on the Thermodynamic Behavior of a Layered Three-Dimensional Ising Lattice. (T) E. I. Nesis. *J.* 534 (1965) [7, 665 (1965)]
- NICULESCU, D.**
Certain Properties of HgTe Single Crystals Grown from the Melt. (E) E. Cruceanu, D. Niculescu, N. Nistor, I. Stamatescu, and S. Ionescu-Bujor. *J.* 1456 (1965) [7, 1808 (1965)]
- NICULESCU, D.**
Electrical Properties of Some Solid Solutions of the $Zn_{1-x}Hg_xTe$ System. (E/T) E. Cruceanu, D. Niculescu, I. Stamatescu, N. Nistor, and S. Ionescu-Bujor. *J.* 1646 (1966) [7, 2039 (1965)]
- NILISEK, A. I.**
Influence of High Pressure on the Photoconductivity of Some Semiconductors. (T/E) A. I. Nilisek, A. V. Gerst, and Ya. Ya. Kirs. *J.* 744 (1965) [7, 931 (1965)]
- NIKANOROV, S. P.**
Temperature Coefficients of the Elastic Moduli of Alkali-Halide Crystals. (T/E) V. V. Mitskevich and S. P. Nikanorov. *J.* 687 (1965) [7, 823 (1965)]
- NIKIFOROV, A. E.**
The Theory of the EPR Spectrum of Pairs of Exchange-Bound Paramagnetic Ions in Crystals. (T) A. E. Nikiforov and V. I. Cherepanov. *J.* 931 (1965) [7, 1163 (1965)]
- NIKIFOROV, A. E.**
The Problem of the Effect of an Electric Field on the EPR Spectrum of Pairs of Chromium Ions in Corundum. (T) A. E. Nikiforov. *J.* 1005 (1965) [7, 1248 (1965)]
- NIKIFOROV, A. E.**
Correction to the Article "The Theory of the EPR Spectrum of Pairs of Exchange-Bound Paramagnetic Ions in Crystals." (T) A. E. Nikiforov and V. I. Cherepanov. *J.* 2769 (1966) [7, 3431 (1965)]
- NIKITIN, V. V.**
Semiconductor Quantum Generator Based on a p-p Junction in a $GaAs_{1-x}P_x$ Compound. (E) N. G. Basov, P. G. Eliseev, V. V. Nikitin, A. V. Lashina, V. N. Maslov, and A. Ya. Nashed'ski. *J.* 1539 (1965) [7, 1902 (1965)]
- NIKITIN, V. V.**
GaAs p-n Junction Laser with Nonuniform Distribution of Injection Current. (E) N. G. Basov, Yu. P. Zakharov, V. V. Nikitin, and A. A. Sheronov. *J.* 2532 (1966) [7, 3128 (1965)]
- NIKITIN, V. V.**
Interaction of Optically Coupled GaAs p-n Junction Lasers. (E) N. G. Basov, Yu. P. Zakharov, V. V. Nikitin, and A. A. Sheronov. *J.* 2796 (1966) [7, 3460 (1965)]
- NIKITINSKAYA, T. I.**
Electrical Conductivity of X-Ray Irradiated Fluorite Crystals. (E) Yu. B. Vladimirov and T. I. Nikitinskaya. *J.* 2912 (1966) [7, 3612 (1965)]
- NIKITINSKAYA, T. I.**
Influence of Oxygen on the Ionic Conductivity of Fluorite Crystals. (E) V. A. Arkhangelskaya, T. I. Nikitinskaya, and M. S. Tyutin. *J.* 2976 (1966) [7, 3683 (1965)]
- NIKITENKO, V. I.**
Certain Photoelastic Properties of Gallium Arsenide and Silicon. (T/E) V. I. Nikitenko and G. P. Martynenko. *J.* 494 (1965) [7, 625 (1965)]
- NIKOLAIEV, A. P.**
Inclusion of Term "Interaction" in Calculating the EPR Spectra of Ions of the Iron Group. (T) A. N. Men', F. I. Muftakhova, A. P. Nikolaev, and V. I. Cherepanov. *J.* 1754 (1966) [7, 2180 (1965)]
- NIKULIN, V. K.**
Calculation of the Energy of Introduction and the Activation Energy for Diffusion of Hydrogen in Metals. (T) A. I. Gubanov and V. K. Nikulin. *J.* 2184 (1966) [7, 2701 (1965)]
- NIKULIN, V. K.**
A Contribution to the Method of Pseudopotentials for Ion Cores in Metals. (T) V. K. Nikulin. *J.* 2189 (1966) [7, 2708 (1965)]
- NISTOR, N.**
Certain Properties of HgTe Single Crystals Grown from the Melt. (E) E. Cruceanu, D. Niculescu, N. Nistor, I. Stamatescu, and S. Ionescu-Bujor. *J.* 1456 (1965) [7, 1808 (1965)]
- NISTOR, N.**
Electrical Properties of Some Solid Solutions of the $Zn_{1-x}Hg_xTe$ System. (E/T) E. Cruceanu, D. Niculescu, I. Stamatescu, N. Nistor, and S. Ionescu-Bujor. *J.* 1646 (1966) [7, 2039 (1965)]
- NOGTEVA, V. V.**
Heat Capacity of Metallic Arsenic at Low Temperatures. (E) V. V. Nogteva, I. E. Pankov, and P. G. Strelkov. *J.* 1884 (1966) [7, 2339 (1965)]
- NOIMANN, KH.**
Surface Migration of Silicon on Tungsten. (E) Kh. Noimann. *J.* 1624 (1966) [7, 2013 (1965)]
- NOLLE, E. L.**
New Data on the Electron-Excited Recombination Radiation Spectrum of Cadmium Telluride. (E) V. S. Vavilov, E. L. Nolle, and V. D. Egorov. *J.* 749 (1965) [7, 934 (1965)]
- NOLLE, E. L.**
Probability (Yield) of Radiative Recombination in Cadmium Telluride for Electron Excitation. (E) V. S. Vavilov, E. L. Nolle, and S. N. Maksimovskii. *J.* 1253 (1965) [7, 1558 (1965)]
- NOVIKOVA, S. I.**
Influence of Active Impurities on the Thermal Expansion of Silicon. (E/T) S. I. Novikova. *J.* 2007 (1966) [7, 2493 (1965)]
- NOVIKOVA, S. I.**
Phase Transition in $SaTe$. (E) S. I. Novikova and L. E. Shelimova. *J.* 2053 (1966) [7, 2544 (1965)]
- NOVIKOVA, S. I.**
Thermal Expansion and Grüneisen Constant for Certain Simple and Complex Semiconductors. (E) S. I. Novikova. *J.* 2170 (1966) [7, 2683 (1965)]
- NOVOGRUDSKI, V. N.**
Galvanomagnetic Properties of $MnAu$. (E/T) V. N. Novogrudskii and I. G. Fekidov. *J.* 879 (1965) [7, 1095 (1965)]
- NOVOGRUDSKI, V. N.**
Magnetic Properties of $MnGe$. (E) V. N. Novogrudskii, I. G. Fekidov, and V. V. Semenov. *J.* 2319 (1966) [7, 2863 (1965)]
- NOVOTOTSKII-VILASOV, Yu. F.**
Role of Water in the Formation of Dominant Surface Recombination Centers on Germanium. (E) Yu. F. Novototskii-Vilasov. *J.* 870 (1965) [7, 1086 (1965)]
- NRAN'YAN, A. A.**
Adiabatic and Isothermal Finite Elastic Deformations of a Solid. (T) A. A. Nran'yan. *J.* 279 (1965) [7, 345 (1965)]
- NRAN'YAN, A. A.**
The Third-Order Elastic Constants of Alkali-Halide Crystals. (E) A. A. Nran'yan. *J.* 729 (1965) [7, 917 (1965)]
- OBRAZTSOV, Yu. N.**
The Thermal EMF of Semiconductors in a Quantizing Magnetic Field. (T) Yu. N. Obrastsov. *J.* 455 (1965) [7, 573 (1965)]
- OBRAZTSOV, Yu. N.**
Quantum Theory of Thermomagnetic Currents in Semiconductors and Metals. (T) A. I. Anzel'm, Yu. N. Obrastsov, and R. G. Tarikhyan. *J.* 2293 (1966) [7, 2837 (1965)]
- ODINTSOV, D. D.**
The Influence of Vacancies on Phonon Ranges. (T) S. A. Kurkin and D. D. Odintsov. *J.* 1269 (1965) [7, 1573 (1965)]
- OGURTSOV, I. Ya.**
A Variational Method in the Thermodynamics of Impurity-Phonon Systems. (T) Yu. E. Perlin and I. Ya. Ogurtsov. *J.* 1180 (1965) [7, 1467 (1965)]
- OKULOV, V. I.**
Theory of Displacement of Electron Currents in a Quantizing Magnetic Field. (T) P. S. Zyryanov and V. I. Okulov. *J.* 1411 (1965) [7, 1749 (1965)]

- OKUNEVA, N. M.**
Investigation of the Phonon Spectrum of Aluminum. (E) M. M. Bredov, B. A. Kotov, N. M. Okuneva, and A. L. Shakh-Budagov. *J.* 1138 (1965) [*J.* 1413 (1965)]
- OKUNEVA, N. M.**
Hybrid Neutron Spectrometer System. (E) B. A. Kotov, N. M. Okuneva, and A. L. Shakh-Budagov. *J.* 1146 (1965) [*J.* 1423 (1965)]
- OL'KHOV, O. A.**
Inclusion of Spin-Lattice Relaxation in Deriving the Ferromagnetic Resonance Equations. (T) O. A. Ol'khov. *J.* 1848 (1966) [*J.* 2282 (1966)]
- OMAROV, T. G.**
Isotopic Effect in the Values of the Molar Volumes of LiF and LiH. (E) V. S. Kogan and T. G. Omarov. *J.* 747 (1965) [*J.* 933 (1965)]
- ORBELI, A. L.**
Paramagnetic Resonance of Free Silver Atoms Formed in Frozen Solutions of Silver Salts Irradiated at 77°K. (E) R. A. Zhitnikov and A. L. Orbeli. *J.* 1559 (1966) [*J.* 1926 (1966)]
- ORBELI, A. L.**
Paramagnetic Resonance of Hydrogen Atoms Formed in Frozen Acids Irradiated at 77°K. (E) R. A. Zhitnikov and A. L. Orbeli. *J.* 2843 (1966) [*J.* 3522 (1966)]
- ORDAN'YAN, S. S.**
Electrical Properties of Carbides of Transition-Metals in Group IV. (E) O. A. Golikova, A. I. Avgustinnik, G. M. Klimashin, L. V. Kozlovskii, S. S. Ordan'yan, and V. A. Snetkova. *J.* 2995 (1966) [*J.* 3698 (1966)]
- ORLOV, A. N.**
Rate of Motion of Dislocations with Steps. (T) A. N. Orlov. *J.* 1887 (1966) [*J.* 2333 (1966)]
- ORLOVA, N. N.**
Electric-Field-Induced Shift of the Fundamental Absorption Edge in GaAs, CdS, and CdTe Films. (E) P. S. Kireev, N. N. Orlova, V. N. Saurin, and L. N. Strel'sov. *J.* 1029 (1965) [*J.* 1271 (1965)]
- ORMONT, N. N.**
Low-Temperature Voltage Sensitivity of Gold-Doped p-Type Germanium. (E) I. A. Kurova, V. V. Ostrobodova, and N. N. Ormont. *J.* 755 (1965) [*J.* 940 (1965)]
- OSIKO, V. V.**
The Effect of Oxygen Impurity on the Optical Properties of CaF₂-Sm Crystals. (E) L. V. Krotova, V. V. Osiko, and V. T. Udovchik. *J.* 181 (1965) [*J.* 238 (1965)]
- OSIKO, V. V.**
Optical Properties of CaF₂-Dy³⁺ Crystals. (E) Yu. K. Voron'ko, V. V. Osiko, V. T. Udovchik, and M. M. Fursikov. *J.* 204 (1965) [*J.* 267 (1965)]
- OSIKO, V. V.**
The Thermodynamics of Optical Centers in CaF₂-TR³⁺ Crystals. (T) V. V. Osiko. *J.* 1047 (1965) [*J.* 1294 (1965)]
- OSIKO, V. V.**
Optical Properties of CaF₂-Nd³⁺ Crystals. (E/T) Yu. K. Boron'ko, L. V. Krotova, V. V. Osiko, V. T. Udovchik, and M. M. Fursikov. *J.* 1450 (1965) [*J.* 1800 (1965)]
- OSKOTSKII, V. S.**
Possible Effect of Quasiloal Lattice Vibrations on the Infrared Absorption and Thermal Conductivity of KCl-H Crystals. (E) D. N. Mirlin, V. S. Oskotskii, I. I. Reshina, I. A. Smirnov, V. V. Tikhonov, and I. S. Zhurkov. *J.* 2433 (1966) [*J.* 3003 (1966)]
- OSMANOV, E. O.**
Diamond-Like Semiconductors in the Glassy State. (E) A. A. Vapalov, E. O. Osmanov, and Yu. V. Rud'. *J.* 1833 (1966) [*J.* 2266 (1966)]
- OSTANEVICH, Yu. M.**
The Mössbauer Effect in Alkali-Iron-Silicate Glasses. (E) A. A. Beljustin, Yu. M. Ostanovich, A. M. Pisarevskii, S. B. Tomilov, U. Bai-shi, and L. Cher. *J.* 1163 (1965) [*J.* 1447 (1965)]
- OSTROBORODOVA, V. V.**
Degeneracy Factors of Impurity Levels and the Analysis of Electrical Properties of Germanium Doped with Gold. (E/T) V. V. Ostrobodova. *J.* 484 (1965) [*J.* 610 (1965)]
- OSTROBORODOVA, V. V.**
Kinetics of the Low-Temperature Impurity Photoconductivity in p-Type Germanium Containing Gold. (E/T) I. A. Kurova and V. V. Ostrobodova. *J.* 547 (1965) [*J.* 683 (1965)]
- OSTROBORODOVA, V. V.**
Low-Temperature Voltage Sensitivity of Gold-Doped p-Type Germanium. (E) I. A. Kurova, V. V. Ostrobodova, and N. N. Ormont. *J.* 755 (1965) [*J.* 940 (1965)]
- OSTROBORODOVA, V. V.**
Interaction of Lithium and Nickel in Germanium. (E/T) V. V. Ostrobodova and S. V. Ivanova. *J.* 1525 (1965) [*J.* 1890 (1965)]
- OSTROUKHOV, A. A.**
Inelastic Scattering of Electrons in Thin Films. (T/E) N. G. Nakhodkin, A. A. Ostroukhov, and V. A. Romanovskii. *J.* 161 (1965) [*J.* 210 (1965)]
- OSTROUKHOV, A. A.**
Effect of the Atomic Screening Factor on the Inelastic Scattering of Electrons. (T/E) N. G. Nakhodkin, A. A. Ostroukhov, and V. A. Romanovskii. *J.* 1014 (1965) [*J.* 1286 (1965)]
- OSUKHOVSKII, V. E.**
The Problem of the Mechanism of the Formation and Annihilation of Heterocharge in Boeswax Electrets. (T/E) V. E. Osukhovskii and L. A. Tkachenko. *J.* 2086 (1966) [*J.* 2578 (1966)]
- OSVENSII, V. B.**
Investigation of the Infrared Absorption Spectrum of n-Type Gallium Arsenide. (E) M. G. Mil'vidskii, V. B. Osvenskii, E. P. Rashevskaya, and T. G. Yugova. *J.* 2784 (1966) [*J.* 3448 (1966)]
- OSVENSII, V. B.**
Dislocation Decoration in Gallium Arsenide Crystals. (E) M. G. Mil'vidskii, V. B. Osvenskii, and T. G. Yugova. *J.* 2791 (1966) [*J.* 3454 (1966)]
- OSUSH, P. T.**
Photoconductivity of Cu₂S, Cu₂Se, and Cu₂Te. (E) G. P. Sorokin, Yu. M. Papehev, and P. T. Oush. *J.* 1810 (1966) [*J.* 2244 (1966)]
- OVANDER, L. N.**
Theory of Induced Absorption of Light in Crystals. (T) V. M. Agranovich and L. N. Ovander. *J.* 2263 (1966) [*J.* 2789 (1966)]
- OVCHINNIKOV, A. A.**
Singularities in the Phonon Spectrum of One-Dimensional Chains. (T) A. A. Ovchinnikov. *J.* 664 (1965) [*J.* 832 (1965)]
- OVCHINNIKOV, A. A.**
Anomalies in the Phonon Spectra of Bismuth-Type Metals. (T) A. A. Ovchinnikov. *J.* 949 (1965) [*J.* 1183 (1965)]
- OVCHINNIKOVA, T. L.**
The Electrical Properties of Yttrium Ferrites Having a Garnet Structure. (E/T) K. P. Belov, M. A. Zaitseva, A. N. Kadomtseva, and T. L. Ovchinnikova. *J.* 381 (1965) [*J.* 477 (1965)]
- OVURTSAKAYA, R. M.**
Utilization of X-Ray Spectral Analysis for the Investigation of the Valence State of Manganese Atoms in Complex Oxide Semiconductors. (E) E. E. Vainshtein, R. M. Ovurtskaya, and B. I. Kotlyar. *J.* 1707 (1966) [*J.* 2120 (1966)]
- PADO, G. S.**
Amplification of Longitudinal Ultrasonic Waves in a Single Crystal of CdS. (E/T) D. N. Astrov, V. I. Balbakov, G. S. Pado, and L. A. Sysoev. *J.* 524 (1965) [*J.* 655 (1965)]
- PADUCHIKH, L. I.**
Stimulated Radiation from Diffused p-n Junctions in Gallium Antimonide. (E) I. V. Kryukova, V. G. Karnaukhov, and L. I. Paduchikh. *J.* 2757 (1966) [*J.* 3421 (1966)]
- PALATNIK, L. S.**
The Influence of the Structure of Thin Films on Their Electrical Conductivity. (T/E) Yu. F. Komnik and L. S. Palatnik. *J.* 429 (1965) [*J.* 539 (1965)]
- PALATNIK, L. S.**
The Mechanism of Formation of Growth Textures in Beryllium Condensates. (E) L. S. Palatnik and A. I. Fedorenko. *J.* 653 (1965) [*J.* 819 (1965)]

PALATNIK, L. S.

The Condensation Diagram of Bi-Sb Alloys. (E) L. S. Palatnik, N. T. Gladikh, and M. N. Naboka. *J.* 887 (1965) [7, 1106 (1965)]

PALATNIK, L. S.

Effect of the Substrate on the Structure and Properties of PbTe Films. (T) L. S. Palatnik, V. K. Sorokin, and M. V. Lebedeva. *J.* 1374 (1965) [7, 1999 (1965)]

PALATNIK, L. S.

Some Regularities in the Bulk Condensation of Metals and Alloys. (E) L. S. Palatnik, G. V. Fedorov, and P. N. Bogatov. *J.* 2141 (1966) [7, 2648 (1965)]

PALATNIK, L. S.

Investigation of Permalloy Films with "Trans-Critical" Hysteresis Loops. (E) L. S. Palatnik, L. I. Lukashenko, and A. G. Ravlik. *J.* 2285 (1966) [7, 2829 (1965)]

PALATNIK, L. S.

Investigation of Condensed ZnS-CdS and Zn-Cd-S Films of Variable Composition. (E) L. S. Palatnik, N. T. Gladikh, and M. N. Naboka. *J.* 2306 (1966) [7, 2850 (1965)]

PALATNIK, L. S.

Condensation Coefficient of Beryllium. (E) L. S. Palatnik and A. I. Fedorenko. *J.* 2561 (1966) [7, 3163 (1965)]

PANASYUK, L. M.

Intrinsic Recombination Radiation of Zinc Telluride. (E) M. V. Kot, L. M. Panasyuk, A. V. Simashkevich, and A. E. Tsurkan. *J.* 999 (1965) [7, 1342 (1965)]

PANASYUK, L. M.

Intrinsic Recombination Radiation of ZnSe-ZnTe Heterojunctions. (E) M. V. Kot, L. M. Panasyuk, A. V. Simashkevich, A. E. Tsurkan, and D. A. Sherba. *J.* 1001 (1965) [7, 1244 (1965)]

PANKEVICH, Z. V.

Piezoresistance Effect in p-Type Zinc Telluride. (E) A. V. Savitskii, and Z. V. Pankevich. *J.* 252 (1965) [7, 315 (1965)]

PANKEVICH, Z. V.

Piezoresistance of Sb_2Te_3 . (T/E) D. M. Bercha, Z. V. Pankevich, A. V. Savitskii, and K. D. Tovstyk. *J.* 1968 (1965) [7, 2437 (1965)]

PANTELEEV, V. A.

Diffusion of Indium in Germanium Along Dislocations. (E) V. A. Pantelev. *J.* 734 (1965) [7, 922 (1965)]

PANTELEEV, V. A.

Application of the Method of "Standard Curves" to Investigation of the Diffusion of Antimony on Germanium and Silicon Surfaces. (E/T) P. V. Pavlov and V. A. Pantelev. *J.* 1776 (1966) [7, 2209 (1965)]

PAPSHEV, Yu. M.

Photoconductivity of Cu_2S , Cu_2Se , and Cu_2Te . (E) G. P. Sorokin, Yu. M. Papshev, and P. T. Oush. *J.* 1810 (1966) [7, 2244 (1965)]

PARFEN'EV, R. V.

The Problem of the Influence of Electron Spin on the Shubnikov-De Haas Oscillations in n-Type InSb. (T/E) M. S. Bresler, R. V. Parfen'ev, and S. S. Shalyt. *J.* 1025 (1965) [7, 1266 (1965)]

PARFEN'EV, R. V.

Magnetophonon Oscillation of Thermal emf in n-InSb in a Longitudinal Magnetic Field. (E/T) V. M. Muzhdaba, R. V. Parfen'ev, and S. S. Shalyt. *J.* 1922 (1966) [7, 2379 (1965)]

PARISKII, V. B.

Investigation of Slip Lines in LiF Single Crystals Using Statistical Distribution Graphs of Distances Between Etch Pits. (E/T) V. M. Borzhkovskaya, A. I. Landau, and V. B. Pariskii. *J.* 1719 (1966) [7, 2136 (1965)]

PASECHNIK, Yu. A.

Photoconductivity of Silicon in the Infrared Region of the Spectrum, Due to Surface Electron States. (E) Yu. A. Pasechnik and O. V. Saitko. *J.* 2759 (1966) [7, 3422 (1965)]

PASHABEKOVA, U. S.

Spatial Dispersion of Long-Wavelength Optical Oscillations in Polar Semiconductors. (T) I. G. Lang and U. S. Pashabekova. *J.* 2829 (1966) [7, 3502 (1965)]

PATRIKKEEV, Yu. I.

Relationship Between Dislocation Density and Stresses Resulting from Deformation of LiF Crystals. (E) B. I. Smirnov and Yu. I. Patrikkee. *J.* 1336 (1965) [7, 1649 (1965)]

PATRINA, I. B.

The Relationship Between Electrical Conductivity and the State of the V^{4+} Ions in V_2O_5 Crystals. (E) I. V. Dmitrieva, V. A. Ioffe, and I. B. Patrina. *J.* 2228 (1966) [7, 2754 (1965)]

PAUKOV, I. E.

Heat Capacity of Metallic Arsenic at Low Temperatures. (E) V. V. Nogteva, I. E. Paukov, and P. G. Strelkov. *J.* 1884 (1966) [7, 2330 (1965)]

PAVLOTSKII, Ya. V.

Electrical Conductivity and Thermo-emf of Some Manganese Spinels. (E/T) I. T. Shefel' and Ya. V. Pavlotskii. *J.* 2781 (1966) [7, 3445 (1965)]

PAVLOV, P. V.

Application of the Method of "Standard Curves" to Investigation of the Diffusion of Antimony on Germanium and Silicon Surfaces. (E/T) P. V. Pavlov and V. A. Pantelev. *J.* 1776 (1966) [7, 2209 (1965)]

PAVLOV, P. V.

The Electrical Conductivity of Inversion Layers Formed in a Silicon by Bombardment with Boron Ions. (T) P. V. Pavlov, E. I. Zorin, D. I. Tetelbaum, and E. K. Granitskaya. *J.* 2386 (1966) [7, 2940 (1965)]

PAVLOV, S. T.

Spin-Reversal Interaction of Electrons with Optical Phonons in Semiconductors. (T) S. T. Pavlov and Yu. A. Firsov. *J.* 2131 (1966) [7, 2634 (1965)]

PAVLOVA, I. N.

Effect of Mechanical Stresses on the Photolysis Kinetics of Kapron. (E) E. E. Tomashevskii, I. N. Pavlova, and A. Ya. Savostin. *J.* 387 (1965) [7, 485 (1965)]

PAVLOVSKII, M. N.

Equation of State for Cesium Iodide. (E/T) M. N. Pavlovskii, V. Ya. Vashchenko, and G. V. Simakov. *J.* 972 (1965) [7, 1212 (1965)]

PAYASOVA, L.

Thermal Conductivity of Semiconducting Chalcogenide Glasses. (E) B. T. Kolomiets, L. Payasova, and L. Shitourach. *J.* 1285 (1965) [7, 1588 (1965)]

PELETMINSKII, S. V.

The Role of Surface Currents in Transport Processes in a Magnetic Field. (T) S. V. Peletminskii and V. G. Bar'yakhtar. *J.* 356 (1965) [7, 446 (1965)]

PELETMINSKII, S. V.

Relaxation of Electrons and Phonons in Semimetals. (T) S. V. Peletminskii. *J.* 2153 (1966) [7, 2660 (1965)]

PELETMINSKII, S. V.

Nonlinear Kinetic Coefficients of Conductors in a Magnetic Field. (T) S. V. Peletminskii. *J.* 2157 (1966) [7, 2666 (1965)]

PENIN, N. A.

Influence of the Concentration of Donors and Acceptors on the Electrical Conductivity of Heavily Doped n-Type Silicon. (E) N. A. Penin, B. G. Zhurkin, and B. A. Volkov. *J.* 2580 (1966) [7, 3188 (1965)]

PENIN, N. A.

Influence of Compensation on the Exchange Interaction of Donors in Heavily Doped n-Type Silicon. (E) B. G. Zhurkin and N. A. Penin. *J.* 2592 (1966) [7, 3204 (1965)]

PEN'KOV, I. N.

Effect of Impurities on the Nuclear Quadrupole Resonance Spectra of the α - and γ -Modifications of Bi_2O_3 . (E) I. N. Pen'kov and I. A. Safin. *J.* 145 (1965) [7, 190 (1965)]

PEREL', V. I.

Electromagnetic Theory of the Injection Laser. (T) R. F. Kazarinov, O. V. Konstantinov, V. I. Perel', and A. L. Efros. *J.* 1210 (1965) [7, 1506 (1965)]

PERLIN, Yu. E.

A Variational Method in the Thermodynamics of Impurity-Phonon Systems. (T) Yu. E. Perlin and I. Ya. Ogurtsov. *Zh.* 1180 (1965) [7, 1467 (1965)]

PERLIN, Yu. E.

Theory of Many-Phonon Nonradiative Transitions in Local Paramagnetic Centers. (T) B. S. Teurkherlat and Yu. E. Perlin. *Zh.* 2647 (1966) [7, 3278 (1965)]

PERMOGOROV, S. A.

Afterglow and the Dependence of the Edge Luminescence Spectrum of CoS Single Crystals on the Excitation Intensity. (E/T) E. F. Gross, B. S. Razharia, and S. A. Permogorov. *Zh.* 444 (1965) [7, 558 (1965)]

PESCHANSKAYA, N. N.

Time-to-Rupture and Deformation of Polymers at Low Temperatures. (E) N. N. Peschanskaya and V. A. Stepanov. *Zh.* 2402 (1966) [7, 2962 (1965)]

PESHKOV, E. V.

Radiation-Induced Changes in the Properties of Ferroelectrics, Due to an Internal Bias Field. (E) S. V. Starodubtsev and E. V. Peshkov. *Zh.* 2570 (1966) [7, 3178 (1965)]

PESKOVATSKII, S. A.

Spin-Lattice Relaxation of the Fe^{3+} Ion in Natural Andalustite at Low Temperatures. (E) I. I. Eru, S. A. Peskovatskii, and A. N. Chernets. *Zh.* 293 (1965) [7, 363 (1965)]

PESKOVATSKII, S. A.

Concentration and Temperature Dependences of the Spin-Lattice Relaxation Times in Ruby. (E) S. A. Peskovatskii. *Zh.* 2971 (1966) [7, 3678 (1965)]

PETRAKOVSKII, G. A.

Effect of Anisotropic Stresses on the Frequency Spectrum of Magnetoelastic Oscillations. (E/T) G. A. Petrakovskii and Yu. N. Kotyukov. *Zh.* 1892 (1966) [7, 2339 (1965)]

PETROV, A. V.

Thermal Conductivity of Doped Si-Ge Solid Solutions. (E) R. S. Erofeev, E. K. Iordanishvili, and A. V. Petrov. *Zh.* 2470 (1966) [7, 3054 (1965)]

PETROV, A. V.

Scattering of Phonons by Large Lattice Distortions. (E) A. V. Petrov. *Zh.* 2988 (1966) [7, 3681 (1965)]

PETROV, M. P.

Nuclear Magnetic Resonance of ^{27}F in $NaNiF_3$ and $NaCoF_3$. (E) M. P. Petrov. *Zh.* 1348 (1965) [7, 1663 (1965)]

PETROV, M. P.

Nuclear Magnetic Resonance in Paramagnetic $TiMnF_3$. (E) M. P. Petrov and G. A. Smolenskii. *Zh.* 1735 (1965) [7, 2156 (1965)]

PETROV, M. P.

Nuclear Magnetic Resonance in $RbMnF_3$. (E) M. P. Petrov, G. S. Smolenskii, and P. P. Syrnakov. *Zh.* 2984 (1966) [7, 3689 (1965)]

PETROV, N. N.

Auger Ejection of Electrons from Tungsten and Molybdenum by Mercury Ions. (E/T) A. A. Doroshkin and N. N. Petrov. *Zh.* 88 (1965) [7, 118 (1965)]

PETROV, N. N.

Emission of Electrons on Bombardment of Alkali Halide Single Crystals with Slow Helium and Argon Ions. (E) A. I. Kondrashev and N. N. Petrov. *Zh.* 1255 (1965) [7, 1559 (1965)]

PIKUS, E. L.

Characteristic Temperature of Molecular Crystals. (E) A. I. Kislugovskii, B. D. Korshkov, and E. L. Pikus. *Zh.* 2298 (1966) [7, 2843 (1965)]

PIKUS, G. E.

Threshold Current of a Semiconductor Laser. (T/E) G. E. Pikus. *Zh.* 2854 (1966) [7, 3536 (1965)]

PIKUS, G. E.

Line Width of a Semiconductor Laser. (T/E) G. E. Pikus and A. G. Aronov. *Zh.* 2863 (1966) [7, 3548 (1965)]

PIL'SHCHIKOV, A. I.

Parametric Excitation of Spin Waves in Polycrystalline Samples of Mg-Mn Ferrites. (E) A. I. Pil'shchikov and E. V. Lebedeva. *Zh.* 2677 (1966) [7, 3320 (1965)]

PINES, B. Ya.

Thermomechanical Treatment of Cobalt Ferrite. (E) B. Ya. Pines and N. M. Gumen. *Zh.* 284 (1965) [7, 351 (1965)]

PINES, B. Ya.

Formation of Diffusion Pores in Self-Diffusion. (T/E) B. Ya. Pines and A. F. Sirenko. *Zh.* 551 (1965) [7, 687 (1965)]

PINES, B. Ya.

On the Question of the Absolute Value of Submicroporosity Developed in Electrolytic Films After Annealing and Under a Load. (E/T) B. Ya. Pines and R. I. Kuznetsova. *Zh.* 775 (1965) [7, 961 (1965)]

PINSKER, T. N.

Electrical Conductivity of Films in Strong Electric Fields. (T) T. N. Pinsker and V. B. Sandomirskii. *Zh.* 984 (1965) [7, 1228 (1965)]

PIROZHKOV, B. I.

Dilatometric Study of the Vitrification of Amorphous Isomers. (E) B. I. Pirozhkov. *Zh.* 536 (1965) [7, 668 (1965)]

PISAREV, R. V.

Absorption Spectrum of the Fe^{3+} Ion in $PbFe_{0.9}Nb_{0.1}O_3$ and in $Ga_{1-x}Fe_xO_3$. (E) R. V. Pisarev. *Zh.* 158 (1965) [7, 207 (1965)]

PISAREV, R. V.

Optical Absorption Spectrum of the Antiferromagnet $NaNiF_3$. (E) R. V. Pisarev. *Zh.* 1114 (1965) [7, 1382 (1965)]

PISAREV, R. V.

Estimate of the Exchange Interaction of the Excited Mn^{2+} Ion in MnO . (E/T) R. V. Pisarev and G. A. Smolenskii. *Zh.* 2064 (1966) [7, 2556 (1965)]

PISAREV, R. V.

Investigation of Ferrite Garnet Crystals Containing Vanadium. (E) A. N. Ageev, M. M. Venetskaya, G. A. Zhibotskii, I. E. Myt'nikova, R. V. Pisarev, and O. B. Proskuryakov. *Zh.* 2310 (1966) [7, 2853 (1965)]

PISAREVSKII, A. M.

The Misesbauer Effect in Alkali-Iron-Silicate Glasses. (E) A. A. Belyustina, Yu. M. Ostanevich, A. M. Pisarevskii, S. B. Tomilov, U. Bai-ah, and L. Cher. *Zh.* 1163 (1965) [7, 1447 (1965)]

PISAREVSKII, Yu. V.

The Electro-Optical Properties of $NH_4H_2PO_4$, KH_2PO_4 , and $Ni(CH_3)_2$ Crystals in UVF Fields. (E) Yu. V. Pisarevskii, G. A. Tregubov, and Yu. V. Shalidin. *Zh.* 530 (1965) [7, 661 (1965)]

PIKOVSKI, V. N.

Theory of the Polarization Operator. (T) V. N. Piskovskii and B. E. Tsakava. *Zh.* 908 (1965) [7, 1132 (1965)]

PLACHENOV, B. T.

Appearance of an EMF on the Annealing of $NaCl:Ag$ Single Crystals Irradiated with Beta-Particles. (E) V. P. Avdonin, I. A. Vasil'ev, G. A. Mikhail'chenko, B. T. Plachenov, and V. A. Shibaev. *Zh.* 2514 (1966) [7, 3110 (1965)]

PLAKHTII, V. P.

Investigation of the Magnetic Ordering in Ferroelectric $PbFe_{0.9}Nb_{0.1}O_3$. (E) G. M. Drabkin, E. I. Mal'tsev, and V. P. Plakhtii. *Zh.* 997 (1965) [7, 1241 (1965)]

PLOTNIKOV, A. F.

Radiation Defects in Very Pure Silicon Crystals. (E) V. S. Vavilov, S. I. Vintovkin, A. S. Lyutovich, A. F. Plotnikov, and A. A. Sokolova. *Zh.* 399 (1965) [7, 502 (1965)]

POGARSKII, A. M.

Galvanomagnetic Properties of Tellurium and Structure of the Valence Band Near the Energy Minimum. (E) I. I. Farishtein, A. M. Pogarskii, and S. S. Shalyt. *Zh.* 1925 (1966) [7, 2383 (1965)]

POIKER, K.

Theory of Resonance Raman Scattering of Light in Doped Crystals. (T) E. D. Trifonov and K. Poiker. *Zh.* 1897 (1966) [7, 2345 (1965)]

- POKATILOV, E. P.**
Thermal Ionization of Small Traps in a Cubic Piezoelectric. (T) E. P. Pokatilov, A. G. Cheban, and M. M. Rusanov. *J.* 1794 (1966) [*J.* 2226 (1965)]
- POKATILOV, E. P.**
Influence of the Piezopolaron Effect on the Ground-State Energy, the Effective Mass of Current Carriers, and the Absorption Spectrum of an Impurity. (T) E. P. Pokatilov. *J.* 1996 (1966) [*J.* 2479 (1965)]
- POKROVSKII, Ya. E.**
Generation-Recombination Noise in Silicon Doped with Boron and Indium. (E/T) V. V. Proklov, E. E. Godik, and Ya. E. Pokrovskii. *J.* 263 (1965) [*J.* 326 (1965)]
- POKROVSKII, Ya. E.**
Impurity Recombination Radiation of Diodes Made of Indium-Doped n-Type Silicon. (E) Ya. E. Pokrovskii and K. I. Svislunova. *J.* 1275 (1965) [*J.* 1579 (1965)]
- POKROVSKII, Ya. E.**
Impurity and Interimpurity Radiative Recombination in Silicon. (E/T) Ya. E. Pokrovskii and K. I. Svislunova. *J.* 1478 (1965) [*J.* 1837 (1965)]
- POKROVSKII, Ya. E.**
The Effect of Doping on Recombination Radiation in the n-Type Base Region of GaSb Diodes. (E) Ya. E. Pokrovskii and K. I. Svislunova. *J.* 2800 (1966) [*J.* 3464 (1965)]
- POLANDOV, I. N.**
Investigation of the Ferroelectric Solid Solution $\text{Ba}(\text{Ta}_{1-x}\text{Zr}_{2x}\text{O}_3)_2$ at High Pressures. (E) I. N. Polandov. *J.* 1508 (1965) [*J.* 1874 (1965)]
- POLITSKII, I. G.**
Effect of Structure on Young's Modulus and on the Damping Decrement of Aluminum. (E) T. Ya. Benieva, L. N. Larikov, and I. G. Politskii. *J.* 1839 (1966) [*J.* 2273 (1965)]
- POLITNIIKOV, S. A.**
Temperature Dependence of the Initial Permeability of Cobalt-Zinc Ferrites. (E/T) S. A. Politnikov and G. M. Prikhodkina. *J.* 241 (1965) [*J.* 304 (1965)]
- POLITNIIKOV, S. A.**
Magnetic Spectra of Lithium-Zinc Ferrites. (E) L. A. Davydov, S. A. Politnikov, and M. F. Bryzhina. *J.* 596 (1965) [*J.* 746 (1965)]
- POLTORATSKII, E. A.**
Coherent Radiation of GaAs p-n Junctions Prepared by the Diffusion of Beryllium. (E) E. A. Poltoratskii, V. M. Stuchebnikov, and A. E. Yonovich. *J.* 1798 (1966) [*J.* 2231 (1965)]
- POLYAKOV, L. M.**
Density Change of Ionic Crystals Subjected to Plastic Compression. (E) R. I. Garber and L. M. Polyakov. *J.* 127 (1965) [*J.* 167 (1965)]
- POPOV, Yu. M.**
Generation of Short-Wavelength Radiation and Lifetime with Respect to Spontaneous Emission in Semiconductors. (T) N. G. Basov, O. V. Bogdankevich, and Yu. M. Popov. *J.* 2655 (1966) [*J.* 3289 (1965)]
- POPOVA, E. A.**
Temperature Dependence of the Raman Scattering Spectra of the Ferroelectric Crystal KH_2PO_4 . (E) A. I. Stekhanov and E. A. Popova. *J.* 2849 (1966) [*J.* 3530 (1965)]
- PORETSKII, L. B.**
Irradiation of n-type Ge with Fast Neutrons. (E/T) K. L. Starostin, Yu. F. Tuturov, and L. B. Poretskii. *J.* 522 (1965) [*J.* 654 (1965)]
- POPELOV, V. V.**
Penetration of Electrons from Adsorbed Ions into the Volume of a Crystal by Tunneling. (E) V. V. Pospelov. *J.* 2998 (1966) [*J.* 3700 (1965)]
- POSTNIKOV, V. S.**
Internal Friction and Strength of Copper Crystal Whiskers. (E) S. A. Ammer, A. T. Koslov, and V. S. Postnikov. *J.* 1808 (1966) [*J.* 2242 (1965)]
- POTKIN, L. I.**
EPR of Nd^{3+} in BaWO_4 . (E) A. A. Antipin, I. N. Kurkin, L. I. Potkin, M. I. Samoilovich, and L. Ya. Shekun. *J.* 2508 (1966) [*J.* 3105 (1965)]
- POTOROCHA, V. I.**
Calculation of the Paramagnetic Susceptibility of Cr^{3+} in MgAl_2O_4 . (T) V. I. Potorocho and A. N. Men'. *J.* 1823 (1966) [*J.* 2256 (1965)]
- POTVOROVA, L. Z.**
Paramagnetic Resonance of Trivalent Samarium in Single Crystals of CaF_2 . (E) A. A. Antipin, I. N. Kurkin, L. D. Livanova, L. Z. Potvorova, and L. Ya. Shekun. *J.* 1271 (1965) [*J.* 1575 (1965)]
- POTVOROVA, L. Z.**
EPR Study of Tetragonal Sm^{3+} Centers in Single Crystals of CaWO_4 . (E) A. A. Antipin, I. N. Kurkin, L. Z. Potvorova, and L. Ya. Shekun. *J.* 2596 (1966) [*J.* 3309 (1965)]
- POTVOROVA, L. Z.**
Observation of Paramagnetic Resonance of Dy^{3+} Ions in CaWO_4 Single Crystals. (E) A. A. Antipin, I. N. Kurkin, L. Z. Potvorova, and L. Ya. Shekun. *J.* 2979 (1966) [*J.* 3685 (1965)]
- POZHELA, Yu.**
Hall Effect in p-Type Germanium in Strong Electric Fields. (E) K. Repshas, R. Vashkevichus, V. Demis, and Yu. Pozhela. *J.* 740 (1965) [*J.* 927 (1965)]
- POZHELA, Yu. K.**
Recombination of Hot Carriers Through Recombination Centers on the Surface of Germanium. (E) S. F. Kal'vins and Yu. K. Pozhela. *J.* 2836 (1966) [*J.* 3512 (1965)]
- PREDVOITSEV, A. A.**
The Strength of Cadmium and Zinc Whiskers. (E/T) A. A. Predvoditel'ev and M. V. Zakharova. *J.* 308 (1965) [*J.* 379 (1965)]
- PREDVOITSEV, A. A.**
Dislocation Motion and Stress Relaxation in Sodium Chloride Crystals. (E/T) N. K. Rakova and A. A. Predvoditel'ev. *J.* 866 (1965) [*J.* 1081 (1965)]
- PRIKHODKINA, G. M.**
Temperature Dependence of the Initial Permeability of Cobalt-Zinc Ferrites. (E/T) S. A. Politnikov and G. M. Prikhodkina. *J.* 241 (1965) [*J.* 304 (1965)]
- PRIKHOT'KO, A. F.**
Martensite-Type Polymorphic Transformation in Octahydroanthracene Crystals. (E) V. N. Vahulev and A. F. Prikhot'ko. *J.* 29 (1965) [*J.* 42 (1965)]
- PRIKHOT'KO, A. F.**
Phase Transition in Naphthalene Single Crystals. (E) A. F. Prikhot'ko and A. F. Skrobogot'ko. *J.* 1017 (1965) [*J.* 1259 (1965)]
- PRILEPSKII, V. I.**
X-Ray Characteristic Temperature of a Germanium-Silicon Solid Solution. (T/E) Ya. S. Umanakii, V. I. Prilepskii, and S. S. Gorelik. *J.* 1802 (1966) [*J.* 2235 (1965)]
- PRILEPSKII, V. I.**
An Investigation of Order in an Equiatomic Germanium-Silicon Solid Solution by Measurement of Diffuse X-Ray Scattering. (E) Ya. S. Umanakii, V. I. Prilepskii, and S. S. Gorelik. *J.* 2182 (1966) [*J.* 2673 (1965)]
- PRILEPSKII, V. I.**
Elastic Vibration Spectra and Characteristic Temperatures of Germanium and Silicon. (T/E) Ya. S. Umanakii and V. I. Prilepskii. *J.* 2399 (1966) [*J.* 2958 (1965)]
- PROKHVATILOV, A. I.**
Mechanical Properties of Polycrystalline Ammonia Under Uniaxial Compression. (E) D. N. Bol'shatkin, A. I. Prokhvatilov, T. V. Sil'vestrova, and V. I. Startsev. *J.* 2255 (1966) [*J.* 2789 (1965)]
- PROKHVATILOV, V. G.**
Electrode and Radiospectroscopic Investigations of Barium Titanate with Additives of Oxides of Trivalent Elements. (E) B. A. Rotenberg, Yu. L. Danilyuk, E. I. Gladin, and V. G. Prokhvatilov. *J.* 2465 (1966) [*J.* 3048 (1965)]

- PROKHORENKO, V. Ya.**
Structure and Thermoelectric Properties of the Bismuth-Cadmium System in the Solid and Liquid States. (E) Ya. I. Dumchak, V. Ya. Prokhorenko, and N. M. Klym. *J.* 1595 (1966) [*J.* 1974 (1965)]
- PROKHOROVA, S. D.**
Microsegregation in Bismuth Telluride. (E) B. M. Gol'tsman and S. D. Prokhorova. *J.* 1023 (1965) [*J.* 1265 (1965)]
- PROKLOV, V. V.**
Generation-Recombination Noise in Silicon Doped with Boron and Indium. (E/T) V. V. Proklov, E. E. Godik, and Ya. E. Pokrovskii. *J.* 263 (1965) [*J.* 326 (1965)]
- PROSKURYAKOV, O. B.**
Investigation of Ferrite Garnet Crystals Containing Vanadium. (E) A. N. Ageev, M. M. Venetskaya, G. A. Zablotskii, I. E. Myl'nikova, R. V. Pisarev, and O. B. Proskuryakov. *J.* 2310 (1966) [*J.* 2853 (1965)]
- PROTOSERDOVA, I. V.**
Mechanism of the Anomalous Diffusion of Zinc in Indium Antimonide. (E) I. V. Protoserdova, E. Ya. Pumper, and N. V. Troneva. *J.* 2631 (1966) [*J.* 3255 (1965)]
- PROVOTOROV, B. N.**
Spin Absorption in Weak Magnetic Fields. (T) B. N. Provotorov and A. A. Samokhin. *J.* 1043 (1965) [*J.* 1289 (1965)]
- PTASHNIK, V. B.**
Methods for Determining the Isotopic Diffusion Effect in a Solid. (T/E) A. N. Naumov and V. B. Ptashnik. *J.* 543 (1965) [*J.* 677 (1965)]
- PUGACHEV, G. S.**
Reserves of Strength in Sheet Glass and Its Dispersion. (E) F. F. Vitman, G. S. Pugachev, and V. P. Pukh. *J.* 2196 (1966) [*J.* 2717 (1965)]
- PUKH, V. P.**
Reserves of Strength in Sheet Glass and Its Dispersion. (E) F. F. Vitman, G. S. Pugachev, and V. P. Pukh. *J.* 2196 (1966) [*J.* 2717 (1965)]
- PUMPER, E. Ya.**
Mechanism of the Anomalous Diffusion of Zinc in Indium Antimonide. (E) I. V. Protoserdova, E. Ya. Pumper, and N. V. Troneva. *J.* 2631 (1966) [*J.* 3255 (1965)]
- PURTSSELADZE, I. M.**
Some Optical and Photoelectric Properties of MoO_3 . (E/T) R. B. Dehanelidze, I. M. Purtseladze, L. S. Khitarishvili, R. I. Chikviani, and A. L. Shkol'nik. *J.* 2082 (1966) [*J.* 2573 (1965)]
- PYASTA, Ya. A.**
Field Effect in Semiconductors in the Jump Conductivity Range. (E) V. B. Sandomirskii and Ya. A. Pyasta. *J.* 1778 (1966) [*J.* 2211 (1965)]
- RABINOVICH, R. I.**
On the Current-Carrier Interaction in Semiconductors. (T/E) E. M. Gerashenzon, Yu. A. Gurvich, and R. I. Rabinovich. *J.* 1379 (1965) [*J.* 1706 (1965)]
- RADAUTSAN, S. I.**
Photoconductivity Oscillation in GaP. (E) D. N. Nasledov, V. V. Negrestuk, S. I. Radautsan, and S. V. Slobodchikov. *J.* 2965 (1966) [*J.* 3671 (1965)]
- RAICHENKO, A. I.**
Displacements of the Electron Shells of Ions in a NaCl Crystal During Thermal Vibrations. (T/E) A. I. Raichenko. *J.* 698 (1965) [*J.* 877 (1965)]
- RAKHIMOV, A. A.**
The "Small-Frequency" Raman Scattering Spectrum of Crystalline Stilbene and Toluene at Various Temperatures. (E) P. A. Bazhulin and A. A. Rakhimov. *J.* 69 (1965) [*J.* 94 (1965)]
- RAKHIMOV, A. A.**
Investigation of the Low-Frequency Raman Scattering Spectra of Some Organic Crystals at Various Temperatures. (E) A. P. Bazhulin and A. A. Rakhimov. *J.* 1681 (1966) [*J.* 2098 (1965)]
- RAKOVA, N. K.**
Dislocation Motion and Stress Relaxation in Sodium Chloride Crystals. (E/T) N. K. Rakova and A. A. Predvoditel'ev. *J.* 866 (1965) [*J.* 1081 (1965)]
- RAPOPORT, V. L.**
Nature of Slow Photoconductivity in Zinc Oxide. (E) V. L. Rapoport and L. L. Basov. *J.* 902 (1965) [*J.* 1124 (1965)]
- RASHBA, E. I.**
Anisotropy of the Electrical and Photoelectric Properties of InSe. (T/E) I. P. Zhad'ko, E. I. Rashba, V. A. Romanov, I. M. Stakhira, and K. D. Tovstuyuk. *J.* 1432 (1965) [*J.* 1777 (1965)]
- RASHBA, E. I.**
Electronic-Vibrational Luminescence of Large-Radius Impurity Centers. (T/E) V. L. Broude, A. I. Vlasenko, E. I. Rashba, and E. F. Shoka. *J.* 1686 (1966) [*J.* 2094 (1965)]
- RASHBA, E. I.**
Formation of Nonequilibrium Carriers when a Current Passes Through Elastically Deformed Germanium. (E) I. I. Bokko, I. P. Zhad'ko, E. I. Rashba, and V. A. Romanov. *J.* 1806 (1966) [*J.* 2239 (1965)]
- RASHEVSKAYA, E. P.**
Investigation of the Infrared Absorption Spectrum of α -Type Gallium Arsenide. (E) M. G. Mil'vidskii, V. B. Ovsennik, E. P. Rashevskaya, and T. G. Yugova. *J.* 2784 (1966) [*J.* 3448 (1965)]
- RATSEVIL, I. G.**
Localization of Magnetic Moments in Solid Solutions. (T) I. G. Ratsevil. *J.* 2381 (1966) [*J.* 2933 (1965)]
- RAVICH, V. N.**
Recombination Radiation of p-n Tunnel Junctions in GaAs. (E) A. N. Imenkov, M. M. Kozlov, S. S. Meskin, D. N. Nasledov, V. N. Ravich, and B. V. Tsarenkov. *J.* 504 (1965) [*J.* 634 (1965)]
- RAVICH, V. N.**
Electroluminescence Spectra of Strongly Degenerate Gallium Arsenide. (E/T) A. N. Imenkov, M. M. Kozlov, S. S. Meskin, D. N. Nasledov, V. N. Ravich, and B. V. Tsarenkov. *J.* 618 (1965) [*J.* 775 (1965)]
- RAVICH, Yu. I.**
The Temperature Dependence of the Effective Mass and the Effect of Two-Phonon Processes on the Mobility in Semiconductors with a Narrow Forbidden Band. (T) Yu. I. Ravich. *J.* 1466 (1965) [*J.* 1821 (1965)]
- RAVICH, Yu. V.**
Reply to the Paper of Ya. A. Ugal and Yu. P. Khukhrayanski [1]. (T) Yu. V. Ravich. *J.* 1295 (1965) [*J.* 1598 (1965)]
- RAVIN, V. S.**
Calculation of the Absorption of Energy of an Electron Beam in Matter. (T) V. S. Ravin. *J.* 2767 (1966) [*J.* 3430 (1965)]
- RAVLIK, A. G.**
Investigation of Permalloy Films with "Trans-Critical" Hysteresis Loops. (E) L. S. Palatnik, L. I. Lukashevko, and A. G. Raviik. *J.* 2285 (1966) [*J.* 2829 (1965)]
- RAZBIRIN, B. S.**
Afterglow and the Dependence of the Edge Luminescence Spectrum of CdS Single Crystals on the Excitation Intensity. (E/T) E. F. Gross, B. S. Razbirin, and S. A. Permogorov. *J.* 444 (1965) [*J.* 558 (1965)]
- RAZZON, D. R.**
EPR Spectra of Free Radicals Arising in the Mechanical Breakdown of Polymers. Vulcanized Rubbers. (E) P. Yu. Butyagin, V. F. Drozdovskii, D. R. Razon, and I. V. Kolbanev. *J.* 757 (1965) [*J.* 941 (1965)]
- RAZMAZDE, Z. G.**
Possibility of Transmutation Doping of Indium Antimonide. (E) Sh. M. Miranashvili, D. I. Nanobashvili, and Z. G. Razmadze. *J.* 2877 (1966) [*J.* 3566 (1965)]
- REGEL', A. R.**
Electrical Conductivity of a Mixture of Amorphous and Crystalline Selenium in Strong Electric Fields. (E) A. R. Regel' and B. G. Tagiev. *J.* 742 (1965) [*J.* 928 (1965)]

- REGEL', A. R.
Effect of Orientation of a Growing Bismuth Crystal on the Peltier Coefficient for the Interface between the Solid and Liquid Phases. (E) G. V. Komarov and A. R. Regel'. *J.* 1195 (1965) [*J.* 1486 (1965)]
- REGEL', A. R.
Hall Coefficient of Liquid Alloys of the Hg-Tl System. (E) A. A. Andreev and A. R. Regel'. *J.* 2076 (1966) [*J.* 2567 (1965)]
- REPISHAS, K.
Hall Effect in p-Type Germanium in Strong Electric Fields. (E) K. Repishas, R. Vashkevich, V. Denis, and Yu. Poshela. *J.* 740 (1965) [*J.* 927 (1965)]
- RESHINA, I. I.
Possible Effect of Quasiloal Lattice Vibrations on the Infrared Absorption and Thermal Conductivity of KCl-H Crystals. (E) D. N. Mirin, V. S. Oskotski, I. I. Reshina, I. A. Smirnov, V. V. Tikhonov, and I. S. Zhurkov. *J.* 2435 (1966) [*J.* 3003 (1965)]
- REZER, B. I.
On Calculating the Intensities of the Broad Lines in the Raby Spectrum. (T) B. I. Rezer and V. I. Cherepanov. *J.* 1634 (1966) [*J.* 2024 (1965)]
- REZNIK, L. M.
The Phenomenon of "Vacancy Breakdown" During Self-Diffusion in Alkali-Halide Single Crystals. (E/T) Ya. E. Goguzin, V. I. Solunski, and L. M. Reznik. *J.* 640 (1965) [*J.* 802 (1965)]
- ROBAS, V. I.
Investigation of the Peculiarities of Phase Transitions in the $\text{Cl}_2\text{O}(\text{NO}_2)$ Molecular Crystal by Nuclear Quadrupole Resonance. (E) T. A. Babushkina, V. I. Robas, I. A. Saffin, and G. K. Semin. *J.* 737 (1965) [*J.* 924 (1965)]
- RODAK, M. I.
Appearance of Cross Relaxation and the Spectrum of Exchange-Coupled Ion Pairs in Paramagnetic Crystals. (T/E) I. D. Mash and M. I. Rodak. *J.* 576 (1965) [*J.* 717 (1965)]
- RODE, V. E.
The Temperature Dependence of the Magnetization of Ferrites at Low Temperatures. (E/T) V. E. Rode, R. Germann, and I. V. Grishina. *J.* 1123 (1965) [*J.* 1393 (1965)]
- RODICHEV, A. M.
Allowance for the Magnetoelastic Coupling in the Motion of a Magnetic Moment. (T) A. M. Rodichev and R. G. Khlebos. *J.* 210 (1965) [*J.* 274 (1965)]
- RODIONOV, K. P.
Transport Processes in Doped Indium Antimonide at High Pressures. (E) K. M. Demchuk, I. M. Tsidil'kovskii, and K. P. Rodionov. *J.* 1257 (1965) [*J.* 1561 (1965)]
- ROGACHEV, A. A.
The Possibility of Negative Absorption in the Case of Indirect Transitions Involving Carriers. (T) A. A. Rogachev, A. A. Rogachev, and S. M. Rykin. *J.* 1774 (1966) [*J.* 2206 (1965)]
- ROGACHEV, A. A.
Long-Wavelength Recombination Radiation from Germanium, Associated with Interaction Between Carriers. (E) A. A. Rogachev and S. M. Rykin. *J.* 2690 (1966) [*J.* 3339 (1965)]
- ROGINSKAYA, Ya. E.
Investigation of the Structure and Magnetic Properties of Solid Solutions in the System $\text{BiFeO}_3\text{-LaCrO}_3$. (E) Yu. E. Roginskaya and Yu. N. Venevisev. *J.* 321 (1965) [*J.* 400 (1965)]
- ROITBURD, A. L.
Nonconservative Steady-State Dislocation Motion. (T) A. L. Roitburd. *J.* 916 (1965) [*J.* 1142 (1965)]
- ROITBURD, A. L.
Theory of the Steady-State, Nonconservative Motion of a Dislocation. (T) A. L. Roitburd. *J.* 1089 (1965) [*J.* 1349 (1965)]
- ROITSIN, A. B.
Inclusion of Crystal Imperfections in the Theory of Spin-Lattice Relaxation. (T) A. B. Roitsin. *J.* 2566 (1966) [*J.* 3169 (1965)]
- ROMANOV, V. A.
Anisotropy of the Electrical and Photoelectric Properties of Ingle. (T/E) I. P. Zhad'ko, E. I. Rashba, V. A. Romanov, I. M. Stakhira, and K. D. Tovstuyk. *J.* 1432 (1965) [*J.* 1777 (1965)]
- ROMANOV, V. A.
Formation of Nonequilibrium Carriers when a Current Passes Through Elastically Deformed Germanium. (E) I. I. Boiko, I. P. Zhad'ko, E. I. Rashba, and V. A. Romanov. *J.* 1806 (1966) [*J.* 2239 (1965)]
- ROMANOV, V. P.
The Mössbauer Effect in Sn^{119} Nuclei in Ferroelectric Phase Transitions in the Solid Solution $\text{Ba}(\text{Ti}_{1-x}\text{Sn}_x)_2\text{O}_7$. (E) V. A. Bokov, V. P. Romanov, and V. V. Chekin. *J.* 1521 (1965) [*J.* 1886 (1965)]
- ROMANOV, V. G.
Spectral Distribution of the Internal Photoeffect in Hexagonal Selenium at Low Temperatures. (E) B. T. Kolomiets, V. G. Romanov, and P. K. Khodosevich. *J.* 2042 (1966) [*J.* 2534 (1965)]
- ROMANOV, Yu. A.
Low-Frequency Surface Waves in a Two-Component Plasma. (T) Yu. A. Romanov. *J.* 782 (1965) [*J.* 970 (1965)]
- ROMANOVSKII, V. A.
Inelastic Scattering of Electrons in Thin Films. (T/E) N. G. Nakhodkin, A. A. Ostrokhov, and V. A. Romanovskii. *J.* 161 (1965) [*J.* 210 (1965)]
- ROMANOVSKII, V. A.
Effect of the Atomic Screening Factor on the Inelastic Scattering of Electrons. (T/E) N. G. Nakhodkin, A. A. Ostrokhov, and V. A. Romanovskii. *J.* 1014 (1965) [*J.* 1256 (1965)]
- ROMASHINA, T. Yu.
Specific Heat of Iron Near the Curie Point. (E) Ya. A. Kraftmakher and T. Yu. Romashina. *J.* 2040 (1966) [*J.* 2532 (1965)]
- ROSHCHINA, L. I.
Influence of Impurities and of Deformation on the Kinetics of Accumulation of F-Centers in KCl Crystals. (E) L. I. Roshchina and V. P. Klyukina. *J.* 1829 (1966) [*J.* 2362 (1965)]
- ROSHCHINA, L. I.
Accumulation of F-Centers in Sulfur-Doped KCl. (E) I. Ya. Melik-Galkazyan, L. I. Roshchina, and M. I. Ignat'eva. *J.* 2802 (1966) [*J.* 3465 (1965)]
- ROTENBERG, B. A.
Electrical and Radiospectroscopic Investigations of Barium Titanate with Additives of Oxides of Trivalent Elements. (E) B. A. Rotenberg, Yu. L. Daniluk, E. I. Orlin, and V. G. Prokhorov. *J.* 2465 (1966) [*J.* 3043 (1965)]
- ROZHANSKII, V. N.
The Morphology and Origin of Stacking Faults in Epitaxial Layers. (E/T) V. N. Rozhanskii and K. P. Kostikova. *J.* 937 (1965) [*J.* 1169 (1965)]
- ROZHDESTVENSKII
Generation-Recombination Noise in an InSb Photoresistor. (T/E) N. N. Kolachevskii and Rozhdestvenskii. *J.* 898 (1965) [*J.* 1119 (1965)]
- ROZMAN, G. A.
On the Appearance of an α -Band in the Absorption Spectrum of Alkali-Halide Crystals. (T/E) G. A. Rozman. *J.* 1555 (1966) [*J.* 1921 (1965)]
- ROZMAN, G. A.
Elastic Scattering of Excitons and Electrons by Neutral Vacancies in Alkali-Halide Crystals. (T) S. V. Izmailov and G. A. Rozman. *J.* 2437 (1966) [*J.* 3008 (1965)]
- ROZOVA, M. N.
Calculation of the Formation Energy of a Defect Pair in the Crystal Lattice of Rutile. (T) S. N. Kolikov and M. N. Rozova. *J.* 2166 (1966) [*J.* 2678 (1965)]
- RUBINOV, V. M.
Narrow-Band-Gap Semiconductor Films which Develop Photovoltages up to 5000 V. (E) E. I. Adirovich, T. Mirzakhmudov, V. M. Rubinov, and Yu. M. Yuaov. *J.* 2646 (1966) [*J.* 3652 (1965)]
- RUBINShteIN, B. E.
Compensation of Sublattice Magnetic Moments in Titrated Iron-Gallium Garnet. (E) B. E. Rubinshtein, A. G. Titova, and B. L. Lapovok. *J.* 1328 (1965) [*J.* 1639 (1965)]

- RUBINSSTEIN, B. E.**
Ferromagnetic Resonance in $\text{Bi}_{1-x}\text{Ca}_x\text{Fe}_{1-x}\text{V}_{1-x}\text{O}_2$ Garnet Single Crystals. (E) B. E. Rubinshtein and A. G. Titova. *J.* 2323 (1966) [7, 2867 (1965)]
- RUD', Yu. V.**
Electric and Photoelectric Properties of ZnSiP_2 . (E) N. A. Goryunova, F. P. Kassamaly, D. N. Nasledov, V. V. Negreshkul, Yu. V. Rud', and S. V. Slobodchikov. *J.* 1060 (1965) [7, 1312 (1965)]
- RUD', Yu. V.**
Diamond-Like Semiconductors in the Glassy State. (E) A. A. Valpola, E. O. Osmannov, and Yu. V. Rud'. *J.* 1833 (1966) [7, 2266 (1965)]
- RUDAKOV, V. N.**
Electrical Anisotropy in Polarized Ceramic Materials (Electrets). (E/T) N. P. Bogoroditskiy, V. N. Rudakov, and D. A. Tairova. *J.* 528 (1965) [7, 659 (1965)]
- RUSANOV, I. B.**
Zeeman Splitting of the Radiation Line $\lambda_{\text{Fe}} = 2.36 \mu$ in the Spectrum of a $\text{CaF}_2\text{-Dy}^{3+}$ Crystal. (E) B. P. Zakharchenya, A. V. Varfolomeev, and I. B. Rusanov. *J.* 1150 (1965) [7, 1428 (1965)]
- RUSANOV, M. M.**
Thermal Ionization of Small Traps in a Cubic Piezoelectric. (T) E. P. Pokatilov, A. G. Cheban, and M. M. Rusanov. *J.* 1794 (1966) [7, 2226 (1965)]
- RUSTAMOV, A. G.**
Electrical Properties of Ferrite Spinel with a Variable Content of Divalent Iron Ions. (E/T) A. A. Samokhvalov and A. G. Rustamov. *J.* 961 (1965) [7, 1198 (1965)]
- RYABCHENKO, E. M.**
The Behavior of Adsorbed Cs Films on Single-Crystal Spikes of Ta and Ta_2C . (E) N. A. Gorbaty and E. M. Ryabchenko. *J.* 921 (1965) [7, 1150 (1965)]
- RYASNYIN, G. K.**
Mössbauer Spectra in the Presence of Electric Quadrupole and Magnetic Interactions. (T/E) G. A. Bykov, G. K. Rysanyn, and V. S. Shpinel'. *J.* 1343 (1965) [7, 1657 (1965)]
- RYBALTOVSKI, A. O.**
Electron Paramagnetic Resonance of Irradiated Single Crystals of Fluorite Containing a Neodymium Addition. (E) N. E. Kaak, L. S. Kornienko, and A. O. Rybaltovalskii. *J.* 532 (1965) [7, 663 (1965)]
- RYBALTOVSKI, A. O.**
EPR Rhombic Spectra of Dy^{3+} and Nd^{3+} Ions in CaF_2 . (E) N. E. Kaak, L. S. Kornienko, and A. O. Rybaltovalskii. *J.* 2614 (1966) [7, 3234 (1965)]
- RYBARSKA, V.**
Quantum Theory of an Anisotropic One-Domain Ferromagnet. (T) V. Rybarska. *J.* 1156 (1965) [7, 1436 (1965)]
- RYSKIN, G. Ya.**
Isotopic Effect in the Diffusion of Lithium in Sodium. (E) A. N. Naumov and G. Ya. Ryskin. *J.* 558 (1965) [7, 695 (1965)]
- RYVKIN, S. M.**
Current Oscillations in Germanium Containing Radiation Defects. (E/T) A. B. Gerasimov and S. M. Ryvkin. *J.* 528 (1965) [7, 657 (1965)]
- RYVKIN, S. M.**
Interimpurity Recombination in Gallium Arsenide. (E/T) V. P. Dobrego, S. M. Ryvkin, and A. L. Shkol'nik. *J.* 671 (1965) [7, 841 (1965)]
- RYVKIN, S. M.**
Influence of Deformation on the Interimpurity Recombination in Germanium. (E/T) V. P. Dobrego and S. M. Ryvkin. *J.* 770 (1965) [7, 954 (1965)]
- RYVKIN, S. M.**
Modulation Effect in Photon Absorption with Insufficient Energy Resulting from Current Carrier Heating. (T) S. M. Ryvkin. *J.* 1038 (1965) [7, 1278 (1965)]
- RYVKIN, S. M.**
Indirect Optical Transitions in Semiconductors Involving Carrier Interaction. (T) S. M. Ryvkin, A. A. Grinberg, and N. I. Kramer. *J.* 1766 (1966) [7, 2195 (1965)]
- RYVKIN, S. M.**
The Possibility of Negative Absorption in the Case of Indirect Transitions Involving Carriers. (T) A. A. Grinberg, A. A. Rogachev, and S. M. Ryvkin. *J.* 1774 (1966) [7, 2206 (1965)]
- RYVKIN, S. M.**
Hysteresis Nature of the Current-Voltage Characteristic of a p-n Junction Produced by Irradiation in Germanium. (E) A. B. Gerasimov, N. D. Dolidze, B. M. Konovalev, and S. M. Ryvkin. *J.* 2070 (1966) [7, 2562 (1965)]
- RYVKIN, S. M.**
Long-Wavelength Recombination Radiation from Germanium, Associated with Interaction Between Carriers. (E) A. A. Rogachev and S. M. Ryvkin. *J.* 2690 (1966) [7, 3339 (1965)]
- SAAKYAN, V. A.**
Determining the Forbidden-Gap Width of PbTe at High Temperatures. (E) V. A. Saakyan, E. D. Devyatkov, and I. A. Smirnov. *J.* 2541 (1966) [7, 3138 (1965)]
- SACHENKO, A. V.**
Inclusion of Quasim Effects in the Theory of the Space-Charge Layer in Semiconductors. (T) V. A. Tyagal and A. V. Sachenko. *J.* 2808 (1966) [7, 3472 (1965)]
- SAFAROV, V. I.**
Luminescence of Donor-Acceptor Pairs in GaAs Crystals Doped with Cd. (E) E. F. Gross, V. I. Safarov, and V. E. Sedov. *J.* 1785 (1966) [7, 2217 (1965)]
- SAFIN, I. A.**
Effect of Impurities on the Nuclear Quadrupole Resonance Spectra of the α - and γ -Modifications of Bi_2O_3 . (E) I. N. Pen'kov and I. A. Safin. *J.* 145 (1965) [7, 190 (1965)]
- SAFIN, I. A.**
Investigation of the Peculiarities of Phase Transitions in the $\text{Cl}_2\text{C}(\text{NO}_2)_2$ Molecular Crystal by Nuclear Quadrupole Resonance. (E) T. A. Babushkina, V. I. Robas, I. A. Safin, and G. K. Semin. *J.* 737 (1965) [7, 924 (1965)]
- SALIN, V. I.**
Field-Enhanced Secondary Electron Emission on Transmission Through Thin Zinc Sulfide Films. (E) L. A. Serebrov and V. I. Salin. *J.* 988 (1965) [7, 1233 (1965)]
- SALIN, V. I.**
Field-Enhanced Secondary Electron Emission During Transmission Through Magnesium Fluoride Films. (E) L. A. Serebrov and V. I. Salin. *J.* 1261 (1965) [7, 1565 (1965)]
- SAL'KOV, E. A.**
Some Properties of a p(SiC)-n(CdS) Junction. (E) E. A. Sal'kov. *J.* 227 (1965) [7, 289 (1965)]
- SAMOILOVICH, M. I.**
EPR of Nd^{3+} in BaWO_4 . (E) A. A. Antipin, I. N. Kurkin, L. I. Potkin, M. I. Samoilovich, and L. Ya. Shekun. *J.* 2508 (1966) [7, 3105 (1965)]
- SAMOILOVICH, M. I.**
Investigation of EPR of Mn^{2+} Ions in Single Crystals of ZnMoO_4 . (E) V. F. Dernov-Pegarev, M. M. Zaripov, M. I. Samoilovich, and V. G. Stepanov. *J.* 2983 (1966) [7, 3688 (1965)]
- SAMOKHIN, A. A.**
Spin Absorption in Weak Magnetic Fields. (T) B. N. Provotorov and A. A. Samokhin. *J.* 1043 (1965) [7, 1289 (1965)]
- SAMOKHIN, A. A.**
Modulation of NMR Signal Under Conditions of Strong Saturation. (T) A. A. Samokhin. *J.* 2353 (1966) [7, 2898 (1965)]

SAMOKHVALOV, A. A.

Problem of the Energy Spectrum of the Fe^{3+} Ion in Connection with the Electrical Conductivity of Ferrite Spinel. (T) A. A. Samokhvalov and A. N. Men'. *J.* 221 (1965) [*J.* 283 (1965)]

SAMOKHVALOV, A. A.

Electrical Properties of Ferrite Spinel with a Variable Content of Divalent Iron Ions. (E/T) A. A. Samokhvalov and A. G. Rustamov. *J.* 961 (1965) [*J.* 1198 (1965)]

SANADZE, T. I.

Relaxation Processes in Paramagnetic Resonance of U^{3+} and Tb^{3+} in CaF_2 . (E) B. G. Berulava, T. I. Sanadze, and O. G. Khakhnashvili. *J.* 509 (1965) [*J.* 640 (1965)]

SANDOMIRSKII, V. B.

Electrical Conductivity of Films in Strong Electric Fields. (T) T. N. Pisakov and V. B. Sandomirskii. *J.* 984 (1965) [*J.* 1238 (1965)]

SANDOMIRSKII, V. B.

Impedance of a Dielectric Diode with Traps. (T) T. Yu. Musabekov and V. B. Sandomirskii. *J.* 1366 (1965) [*J.* 1687 (1965)]

SANDOMIRSKII, V. B.

Field Effect in Semiconductors in the Jump Conductivity Range. (E) V. B. Sandomirskii and Ya. A. Pyasta. *J.* 1778 (1966) [*J.* 2211 (1966)]

SANDULOVA, A. V.

Tensoeffect in Filamentary Single Crystals of Silicon, Grown from the Gaseous Phase. (E) A. V. Sandulova, I. I. Mar'yamova, and Yu. I. Zagonyach. *J.* 1277 (1965) [*J.* 1581 (1965)]

SARALIDZE, Z. K.

The Distribution of Charge Near a Prismatic Dislocation Loop in an Ionic Crystal. (T) A. M. Kosevich, I. G. Margvelashvili, and Z. K. Saralidze. *J.* 370 (1965) [*J.* 464 (1965)]

SARALIDZE, Z. K.

Coalescence of Dislocation Loops in the Nonsteady State. (T) Z. K. Saralidze and V. V. Slezov. *J.* 718 (1965) [*J.* 904 (1965)]

SARALIDZE, Z. K.

Theory of the Coalescence of Pores with a Gas. (T) Z. K. Saralidze and V. V. Slezov. *J.* 1299 (1965) [*J.* 1605 (1965)]

SARALIDZE, Z. K.

Effect of the Coalescence of Dislocation Loops on the Internal Friction in Quenched Metals. (T/E) Z. K. Saralidze. *J.* 1474 (1965) [*J.* 1832 (1965)]

SARBEI, O. G.

Surface Conductivity of Gold-Doped Germanium. (E/T) O. G. Katrich, O. G. Sarbei, and D. T. Tarashchenko. *J.* 1091 (1965) [*J.* 1352 (1965)]

SARBEI, O. G.

Influence of Light on the Surface Conductivity of Germanium having a Clean Surface. (E) P. G. Borzyak, G. A. Katrich, and O. G. Sarbei. *J.* 2266 (1966) [*J.* 2803 (1965)]

SAURIN, V. N.

Electric-Field-Induced Shift of the Fundamental Absorption Edge in GaAs, CdS, and CdTe Films. (E) P. S. Kireev, N. N. Orlova, V. N. Saurin, and L. N. Strel'tsov. *J.* 1029 (1965) [*J.* 1271 (1965)]

SAVCHENKO, M. A.

Bound Magnetoelastic Waves in Helical Magnetic Structures. (T) M. A. Savchenko and V. V. Gann. *J.* 1223 (1965) [*J.* 1523 (1965)]

SAVCHENKO, V. P.

The "Waveguide" Theory of Field Emission of Molecular Complexes of Semiconductors, and Experimental Results. (E) A. P. Komar and V. P. Savchenko. *J.* 606 (1965) [*J.* 759 (1965)]

SAVEL'EV, A. M.

The Interaction of a Crack with Dislocation Boundaries. (E) V. M. Finkel', A. M. Savel'ev, I. B. Zuev, S. V. Serebryakov, Yu. M. Korobov, and I. B. Zueva. *J.* 1130 (1965) [*J.* 1402 (1965)]

SAVINA, L. F.

Low-Frequency Internal Friction in Plastically Deformed Solids. (E) L. N. Aleksandrov, V. S. Mordukh, and L. F. Savina. *J.* 2552 (1966) [*J.* 3153 (1965)]

SAVITSKII, A. V.

Piezoresistance Effect in p-Type Zinc Telluride. (E) A. V. Savitskii, and Z. V. Pankevich. *J.* 252 (1965) [*J.* 315 (1965)]

SAVITSKII, A. V.

Piezoresistance of Sb_2Te_3 . (T/E) D. M. Bercha, Z. V. Pankevich, A. V. Savitskii, and K. D. Tovstiyuk. *J.* 1968 (1966) [*J.* 2437 (1965)]

SAVOSTIN, A. Ya.

Effect of Mechanical Stresses on the Photolysis Kinetics of Kapron. (E) E. E. Tomashevskii, I. N. Pavlova, and A. Ya. Savostin. *J.* 387 (1965) [*J.* 485 (1965)]

SAVVINYKH, S. K.

Interaction Between an Elastic Surface Wave and Semi-Infinite Plasma. (T) S. K. Savvinykh, A. A. Karpushin, and B. S. Klyachko. *J.* 2585 (1966) [*J.* 3194 (1965)]

SAZANOV, A. M.

Time Dependence of Equilibrium Magnetization of Nuclear Spin Systems Under the Influence of Ultrasound. (E/T) A. M. Sazanov and S. B. Grigor'ev. *J.* 1120 (1965) [*J.* 1389 (1965)]

SAZONOV, A. M.

Effect of Ultrasound Excitation on the Nuclear Magnetization of a Paramagnet. (T) S. B. Grigor'ev and A. M. Sazonov. *J.* 2334 (1965) [*J.* 2877 (1965)]

SEDOV, V. E.

Spectral Characteristics of Gallium Arsenide Photoelements. (E) A. A. Gudkin, D. N. Nasledov, and V. E. Sedov. *J.* 58 (1965) [*J.* 81 (1965)]

SEDOV, V. E.

Luminescence of Donor-Acceptor Pairs in GaAs Crystals Doped with Cd. (E) E. F. Gross, V. I. Safarov, and V. E. Sedov. *J.* 1785 (1966) [*J.* 2217 (1965)]

SEDOV, V. E.

Influence of the Orientation of GaAs Crystals on the Depth and Photoelectric Properties of Diffused p-n Junctions. (E) A. A. Gudkin, M. B. Kagan, V. E. Sedov, and Ya. I. Chernov. *J.* 2046 (1966) [*J.* 2538 (1965)]

SEIDOV, Yu. M.

Theory of Thermal Expansion in Magnetically Ordered Crystals. (T) N. G. Guseinov and Yu. M. Seidov. *J.* 2929 (1966) [*J.* 3635 (1965)]

SELIVANENKO, A. S.

Possibility of Creating a Superconducting State in Undoped Semiconductors by Illumination with a Powerful Laser. (T/E) A. S. Selivanenko. *J.* 1263 (1965) [*J.* 1567 (1965)]

SELIVANENKO, A. S.

Superconductivity in Semiconductors. (T) B. M. Vul and A. S. Selivanenko. *J.* 1510 (1965) [*J.* 1876 (1965)]

SEMENENKO, A. I.

System of Quantum-Kinetic Equations for Electrons in Metals with Intersecting Bands. (T) A. I. Semenenko. *J.* 975 (1965) [*J.* 1216 (1965)]

SEMEVNOV, V. V.

Magnetic Properties of Mn_2Ge_2 . (E) V. N. Novogrudskii, I. G. Faidov, and V. V. Semenov. *J.* 2319 (1966) [*J.* 2863 (1965)]

SEMEVNOVSKAYA, S. V.

Simultaneous Consideration of the Effects of Static Distortion, Short-Range Order, and Thermal Vibrations of Atoms in the Diffuse Scattering of X Rays by Polycrystalline Substitutional Solid Solutions. (T) S. V. Semenovskaya and A. G. Khachatryan. *J.* 2641 (1966) [*J.* 3270 (1965)]

SEMERCHAN, A. A.

The Temperature Dependence of the Electrical Resistivity of Germanium at Pressures up to 90 kbar. (E) N. N. Kuzin and A. A. Semerchan. *J.* 186 (1965) [*J.* 244 (1965)]

SEMIN, G. K.

Investigation of the Peculiarities of Phase Transitions in the Cl_2-CN_2 Molecular Crystal by Nuclear Quadrupole Resonance. (E) T. A. Babushkina, V. I. Robas, I. A. Safin, and G. K. Semin. *J.* 737 (1965) [*J.* 924 (1965)]

- SEMKINA, V. A.**
Temperature Dependence of the Ferromagnetic Resonance Parameters in Ferrites with Induced Uniaxial Magnetic Anisotropy. (E) N. Z. Miryazov and V. A. Semkina. *J.* 1273 (1965) [*J.* 1577 (1965)]
- SEREBROV, L. A.**
Field-Enhanced Secondary Electron Emission on Transmission Through Thin Zinc Sulfide Films. (E) L. A. Serebrov and V. L. Salin. *J.* 988 (1965) [*J.* 1233 (1965)]
- SEREBROV, L. A.**
Field-Enhanced Secondary Electron Emission During Transmission Through Magnesium Fluoride Films. (E) L. A. Serebrov and V. L. Salin. *J.* 1261 (1965) [*J.* 1565 (1965)]
- SEREBRYAKOV, A. V.**
Creep Characteristics of Filamentary Crystals. (E) A. V. Serebryakov, V. G. Kostyuk, and K. K. Ziling. *J.* 684 (1965) [*J.* 858 (1965)]
- SEREBRYAKOV, S. V.**
The Interaction of a Crack with Dislocation Boundaries. (E) V. M. Finkel', A. M. Savel'ev, L. B. Zuev, S. V. Serebryakov, Yu. M. Korobov, and I. B. Zueva. *J.* 1130 (1965) [*J.* 1402 (1965)]
- SERGEVA, G. G.**
Structure of the Energy Spectrum of Disordered Solid Solutions in the Two-Band Approximation. (T) G. G. Sergeeva. *J.* 1578 (1966) [*J.* 1952 (1966)]
- SHAKH-BUDAGOV, A. L.**
Investigation of the Phonon Spectrum of Aluminum. (E) M. M. Bredov, B. A. Kotov, N. M. Okuneva, and A. L. Shakh-Budagov. *J.* 1138 (1965) [*J.* 1413 (1965)]
- SHAKH-BUDAGOV, A. L.**
Hybrid Neutron Spectrometer System. (E) B. A. Kotov, N. M. Okuneva, and A. L. Shakh-Budagov. *J.* 1146 (1965) [*J.* 1423 (1965)]
- SHAKHOVTSOVA, S. I.**
Generation of Current Pulses by CdS Single Crystals. (E) S. I. Shakhovtsova, I. D. Konozenko, and E. A. Muzalevskii. *J.* 214 (1965) [*J.* 278 (1965)]
- SHAKIROV, A.**
Change in the Electrical Conductivity of Perovskite-Type Ceramics in an Electric Field at High Temperatures. (E) V. Ya. Kunin, A. N. Telkin, and A. Shakirov. *J.* 2961 (1966) [*J.* 3666 (1965)]
- SHALDIN, Yu. V.**
The Electro-Optical Properties of $\text{NH}_4\text{H}_2\text{PO}_4$, KH_2PO_4 , and $\text{N(CH}_3)_4$ Crystals in UHF Fields. (E) Yu. V. Shaldin, G. A. Tregubov, and Yu. V. Shaldin. *J.* 530 (1965) [*J.* 661 (1965)]
- SHALYT, S. S.**
The Problem of the Influence of Electron Spin on the Shubnikov-De Haas Oscillations in n-Type InSb. (T/E) M. S. Bresler, R. V. Parfen'ev, and S. S. Shalyt. *J.* 1025 (1965) [*J.* 1266 (1965)]
- SHALYT, S. S.**
Thermal Conductivity and Thermoelectric Powers of n-Type Indium Phosphide at Low Temperatures. (E) S. A. Aliev, A. Ya. Nashed'skii, and S. S. Shalyt. *J.* 1287 (1965) [*J.* 1590 (1965)]
- SHALYT, S. S.**
Temperature Dependence of the Effective Electron Mass and Some Data on the Mechanism of Electron Scattering in Mercury Selenide. (E/T) S. A. Aliev, L. L. Korenblut, and S. S. Shalyt. *J.* 1357 (1965) [*J.* 1673 (1965)]
- SHALYT, S. S.**
Magneto-phonon Oscillation of Thermal emf in n-InSb in a Longitudinal Magnetic Field. (E/T) V. M. Muzhdaba, R. V. Parfen'ev, and S. S. Shalyt. *J.* 1922 (1966) [*J.* 2379 (1965)]
- SHALYT, S. S.**
Galvanomagnetic Properties of Tellurium and Structure of the Valence Band Near the Energy Minimum. (E) I. I. Farshstein, A. M. Pogarskii, and S. S. Shalyt. *J.* 1925 (1966) [*J.* 2383 (1965)]
- SHALYT, S. S.**
Thermal Conductivity and Thermoelectric Power of Gallium Arsenide at Low Temperatures. (E) S. A. Aliev and S. S. Shalyt. *J.* 2996 (1966) [*J.* 3690 (1965)]
- SHARAVSKII, P. V.**
Thermoelectric Power and Thermal Conductivity of Mercury Telluride Containing Various Amounts of Impurities. (E) E. E. Kolosov and P. V. Sharavskii. *J.* 1814 (1966) [*J.* 2247 (1965)]
- SHARAVSKII, P. V.**
The Dependence of the Thermo-emf of HgTe on a Transverse Magnetic Field. (E/T) E. E. Kolosov and P. V. Sharavskii. *J.* 2973 (1966) [*J.* 3679 (1965)]
- SHASKOL'SKAYA, M. P.**
Kinetics of Dislocation Pinning by Point Defects in Ionic Crystals. (E) A. A. Bistanov, I. V. Troitskii, and M. P. Shaskol'skaya. *J.* 1492 (1965) [*J.* 1856 (1965)]
- SHASKOL'SKAYA, M. P.**
Influence of High-Frequency Vibrations on the Recovery of the Internal Friction in LiF Single Crystals. (E) A. A. Bistanov and M. P. Shaskol'skaya. *J.* 2378 (1966) [*J.* 2930 (1965)]
- SHAVROV, V. G.**
The Energy Gap for the Spin Waves in Ferro- and Antiferromagnets, as Related to the Magnetoelastic Energy. (T) E. A. Turov and V. G. Shavrov. *J.* 166 (1965) [*J.* 217 (1965)]
- SHAVROV, V. G.**
The Influence of an Electric Field on the Resonance Frequency of Antiferromagnets. (T/E) V. G. Shavrov. *J.* 265 (1965) [*J.* 328 (1965)]
- SHEPTEL', I. T.**
Electrical Conductivity and Thermo-emf of Some Manganese Spinels. (E/T) I. T. Sheptel' and Ya. V. Pavlotskii. *J.* 2781 (1966) [*J.* 3445 (1965)]
- SHEINBERG, B. N.**
Emission Properties of a Molybdenum Single Crystal. (E) U. A. Anizov, U. V. Vakhidov, V. M. Sulmanov, B. N. Sheinberg, and G. N. Shupe. *J.* 2232 (1966) [*J.* 2759 (1965)]
- SHEINKMAN, M. K.**
Possibility of Auger Recombination in Multiply Charged Centers in Germanium and Silicon. (T) M. K. Sheinkman. *J.* 18 (1965) [*J.* 28 (1965)]
- SHEINKMAN, M. K.**
Combined Investigation of the Kinetics of Recombination and Infrared Photocurrent Quenching Processes in Cadmium Sulfide. (T/E) V. E. Lashkarev, A. V. Lyubchenko, and M. K. Sheinkman. *J.* 1388 (1965) [*J.* 1717 (1965)]
- SHEINKMAN, M. K.**
Auger Recombination Involving Carriers Located at Different Centers. (T) E. I. Tolpygo, K. B. Tolpygo, and M. K. Sheinkman. *J.* 1442 (1965) [*J.* 1790 (1965)]
- SHEINKMAN, M. K.**
Temperature Dependences of the Cross Sections for the Capture of Electrons by Recombination Centers in CdS and CdSe. (E) M. K. Sheinkman, I. Ya. Gorodetskii, and I. B. Ermolovich. *J.* 2538 (1966) [*J.* 3134 (1965)]
- SHEKA, E. F.**
Electronic-Vibrational Luminescence of Large-Radius Impurity Centers. (T/E) V. L. Broudie, A. I. Vlasenko, É. I. Rashba, and E. F. Sheka. *J.* 1686 (1966) [*J.* 2094 (1965)]
- SHEKA, V. I.**
The Fine Structure of the Spectrum of a Local Center and an Exciton in Semiconductors with Extremum Loops. (T) V. I. Sheka. *J.* 1437 (1965) [*J.* 1783 (1965)]
- SHEKUN, L. Ya.**
Electron Paramagnetic Resonance of Yb^{3+} Ions in Hexagonal ZnS. (T/E) A. A. Antipin, I. N. Kurkin, and L. Ya. Shekun. *J.* 753 (1965) [*J.* 938 (1965)]
- SHEKUN, L. Ya.**
Paramagnetic Resonance of Terbium in Single Crystals of PbMoO_4 . (E/T) A. A. Antipin, I. N. Kurkin, V. G. Stepanov, and L. Ya. Shekun. *J.* 792 (1965) [*J.* 985 (1965)]
- SHEKUN, L. Ya.**
Paramagnetic Resonance of Erbium and Europium in Synthetic Single Crystals of PbMoO_4 . (E) A. A. Antipin, A. N. Katyshev, I. N. Kurkin, and L. Ya. Shekun. *J.* 1148 (1965) [*J.* 1425 (1965)]

- SHEKUN, L. Ya.**
Paramagnetic Resonance of Trivalent Samarium in Single Crystals of CaF_2 . (E) A. A. Antipin, I. N. Kurkin, L. D. Livanova, L. Z. Potvorova, and L. Ya. Shekun. *J.* 1271 (1965) [*J.* 1575 (1965)]
- SHEKUN, L. Ya.**
Comparison of the EPR of Nd^{3+} and Ce^{3+} Ions in Two Crystals of the Homologous Scheelite Series. (E) I. N. Kurkin and L. Ya. Shekun. *J.* 2308 (1966) [*J.* 2852 (1965)]
- SHEKUN, L. Ya.**
EPR of Nd^{3+} in BaWO_4 . (E) A. A. Antipin, I. N. Kurkin, L. I. Potkin, M. I. Samoilovich, and L. Ya. Shekun. *J.* 2508 (1966) [*J.* 3105 (1965)]
- SHEKUN, L. Ya.**
EPR Study of Tetragonal Sm^{3+} Centers in Single Crystals of CaWO_4 . (E) A. A. Antipin, I. N. Kurkin, L. Z. Potvorova, and L. Ya. Shekun. *J.* 2596 (1966) [*J.* 3209 (1965)]
- SHEKUN, L. Ya.**
Observation of Paramagnetic Resonance of Dy^{3+} Ions in CaWO_4 Single Crystals. (E) A. A. Antipin, I. N. Kurkin, L. Z. Potvorova, and L. Ya. Shekun. *J.* 2979 (1966) [*J.* 3685 (1965)]
- SHELIKOVA, L. E.**
Phase Transition in SnTe . (E) S. I. Novikova and L. E. Shelikova. *J.* 2052 (1966) [*J.* 2544 (1965)]
- SHELYKH, A. I.**
Change in Electrical Conductivity and Thermoelectromotive Force of InTe and GaTe Upon Melting. (E) V. P. Zhurav and A. I. Shelykh. *J.* 942 (1965) [*J.* 1175 (1965)]
- SHERBAN, D. A.**
Intrinsic Recombination Radiation of ZnSe-ZnTe Heterojunctions. (E) M. V. Kot, L. M. Panaayuk, A. V. Simashkevich, A. E. Tsurkan, and D. A. Sherban. *J.* 1901 (1965) [*J.* 1244 (1965)]
- SHERMERGOR, T. D.**
Internal Friction Due to the Reorientation of Divacancies in a FCC Lattice. (E/T) S. K. Turkov and T. D. Shermergor. *J.* 1664 (1966) [*J.* 2064 (1965)]
- SHERMERGOR, T. D.**
Effect of Stress Alignment on the High-Temperature Background of Internal Friction. (T) S. K. Turkov and T. D. Shermergor. *J.* 2395 (1966) [*J.* 2952 (1965)]
- SHERONOV, A. A.**
 GaAs p-n Junction Laser with Nonuniform Distribution of Injection Current. (E) N. G. Basov, Yu. P. Zakharov, V. V. Nikitin, and A. A. Sheronov. *J.* 2532 (1966) [*J.* 3128 (1965)]
- SHERONOV, A. A.**
Interaction of Optically Coupled GaAs p-n Junction Lasers. (E) N. G. Basov, Yu. P. Zakharov, V. V. Nikitin, and A. A. Sheronov. *J.* 2796 (1966) [*J.* 3460 (1965)]
- SHESTOPAL, V. O.**
Specific Heat and Vacancy Formation in Titanium at High Temperatures. (E) V. O. Shestopal. *J.* 2798 (1966) [*J.* 3461 (1965)]
- SHEVCHENKO, S. A.**
Photoconductivity of Diamond in the Ultraviolet Part of the Spectrum. (E) E. A. Konorova, L. A. Sorokina, and S. A. Shevchenko. *J.* 876 (1965) [*J.* 1092 (1965)]
- SHEVLYAGIN, K. V.**
Investigations of the Temperature and Frequency Dependences of the Ferromagnetic Resonance Line Width in Ferrite Single Crystals Near the Curie Temperature. (E) B. M. Lebed' and K. V. Shevlyagin. *J.* 1220 (1965) [*J.* 1519 (1965)]
- SHILBAEV, V. A.**
Appearance of an EMF on the Annealing of NaCl:Ag Single Crystals Irradiated with Beta-Particles. (E) V. P. Avdonin, I. A. Vasil'ev, G. A. Mikhail'chenko, B. T. Plachenov, and V. A. Shilbaev. *J.* 2514 (1966) [*J.* 3110 (1965)]
- SHIBANOV, A. S.**
The Equilibrium Concentration of F-Centers in Additively Colored Alkali-Halide Crystals. (T/E) A. S. Shibano. *J.* 249 (1965) [*J.* 312 (1965)]
- SHIBANOV, A. S.**
Influence of Impurities on the Diffusion of Color Centers in Alkali Halide Crystals. (T/E) A. S. Shibano. *J.* 1957 (1966) [*J.* 2423 (1965)]
- SHILEIKA, A. Yu.**
Pressure Dependence of the Fundamental Absorption Edge of Selenium Single Crystals. (E/T) V. Yu. Krishchunas, M. P. Mikal'kevichyus, and A. Yu. Shileika. *J.* 2080 (1966) [*J.* 2571 (1965)]
- SHIMKO, V. I.**
Measurement of the Potential Distribution in Epitaxial p-n Structures by the Flying Light Spot Method. (E) V. Ya. Kovarski and V. I. Shimko. *J.* 1831 (1966) [*J.* 2264 (1965)]
- SHIMKO, V. I.**
Controlled Generation of Relaxation Oscillations at a Point Contact in n-Type Epitaxial Silicon. (E) V. Ya. Kovarski and V. I. Shimko. *J.* 2510 (1966) [*J.* 3106 (1965)]
- SHIROBOKOV, M. Ya.**
Effect of the Internal Electric Field on the Diffusion of Impurities in Semiconductors. (T/E) V. V. Vas'kin, V. A. Uskov, and M. Ya. Shirobokov. *J.* 2703 (1966) [*J.* 3356 (1965)]
- SHESHIYANU, F. S.**
Thermal Conversion of Gallium Arsenide. (E) B. I. Boltaks and F. S. Sheshiyanu. *J.* 822 (1965) [*J.* 1021 (1965)]
- SHISHKIN, Yu. G.**
Work Function of the BaO-Au System. (E) Yu. G. Shishkin. *J.* 1851 (1966) [*J.* 2286 (1965)]
- SHISHKIN, Yu. G.**
On the Possibility of Formation of a Semiconductor Compound of Barium and Gold. (T) Yu. G. Shishkin and I. L. Sokol'skaya. *J.* 2806 (1966) [*J.* 3470 (1965)]
- SHKLYAREVSKII, G. M.**
Dynamic Polarization of Protons in Hydrated Paramagnetic Salts by the Method of a Rapid, Repeated Adiabatic Crossing of the Forbidden Line. (T) G. M. Shklyarevskii. *J.* 1975 (1965) [*J.* 1331 (1965)]
- SHKOL'NIK, A. L.**
Interimpurity Recombination in Gallium Arsenide. (E/T) V. P. Dobrego, S. M. Ryvkin, and A. L. Shkol'nik. *J.* 671 (1965) [*J.* 841 (1965)]
- SHKOL'NIK, A. L.**
Some Optical and Photoelectric Properties of MoO_3 . (E/T) R. B. Dzhanelidze, I. M. Purteladze, L. S. Khitarishvili, R. I. Chikvanel, and A. L. Shkol'nik. *J.* 2082 (1966) [*J.* 2573 (1965)]
- SHMARTSEV, Yu. V.**
Piezomagnetoresistance in n-Type Germanium. (T/E) M. Mirzabaev, V. M. Tuckevich, and Yu. V. Shmartsev. *J.* 2774 (1966) [*J.* 3437 (1965)]
- SHPINEL', V. S.**
Mössbauer Spectra in the Presence of Electric Quadrupole and Magnetic Interactions. (T/E) G. A. Bykov, G. K. Rysanyin, and V. S. Shpinel'. *J.* 1343 (1965) [*J.* 1657 (1965)]
- SHPUNT, A. A.**
Comparison of the Strength of Lithium Fluoride "Whiskers" and "Splinters." (E) A. A. Shpunt and V. Ya. Fridman. *J.* 517 (1965) [*J.* 649 (1965)]
- SHTOL'TS, E. V.**
The Asymmetry of Hysteresis Loops in Small Particles of an MnBi Alloy. (E/T) E. V. Shtol'ts. *J.* 1202 (1965) [*J.* 1495 (1965)]
- SHTOL'TS, E. V.**
Emergence of a Multidomain State in Particles Having a Translational Structure. (E) E. V. Shtol'ts. *J.* 2445 (1966) [*J.* 3019 (1965)]
- SHTOURACH, L.**
Thermal Conductivity of Semiconducting Chalcogenide Glasses. (E) B. T. Kolomiets, L. Payasova, and L. Shtourach. *J.* 1285 (1965) [*J.* 1588 (1965)]
- SHTREMEL', M. A.**
Kinetics of the Formation of Suzuki Segregations. (T) M. A. Shtremel'. *J.* 2003 (1966) [*J.* 2488 (1965)]

- SHTRUBIN, A. V.**
Change in the Transparency of p-Type Germanium in Strong Electric Fields. (E) L. E. Vorob'ev, L. P. Mizgreva, U. B. Soltanov, V. I. Stafey, and A. V. Shtrubin. *J.* 2740 (1966) [*J.* 3404 (1965)]
- SHUL'MAN, A. Ya.**
Influence of an Electric Field on the Long-Wavelength Edge of the Impurity Photoconductivity of Germanium Doped with Zinc and Mercury. (E) V. I. Sidorov, A. Ya. Shul'man, and T. E. Sushko. *J.* 1511 (1965) [*J.* 1877 (1965)]
- SHUL'MAN, S. G.**
Effective Electron Mass and Optical Forbidden-Band Width of Indium Arsenide Films. (E/T) S. G. Shul'man and Yu. I. Ukhov. *J.* 768 (1965) [*J.* 952 (1965)]
- SHULTIN, A. A.**
Infrared Spectra of Potassium Nitrate at Phase Transitions. (E) S. V. Karpov and A. A. Shultin. *J.* 2761 (1966) [*J.* 3424 (1965)]
- SHUMAKOV, Yu. I.**
Coefficients of Linear Expansion of Sodium Iodide Single Crystals. (E) R. V. Bakradze, M. B. Kutaykovich, and Yu. I. Shumakov. *J.* 2543 (1966) [*J.* 3138 (1965)]
- SHUPPE, G. N.**
Emission and Adsorption Characteristics of Faces of a Tungsten Single Crystal. (E) U. V. Azizov and G. N. Shuppe. *J.* 1591 (1966) [*J.* 1870 (1965)]
- SHUPPE, G. N.**
Emission Properties of a Molybdenum Single Crystal. (E) U. A. Azizov, U. V. Vakhidov, V. M. Sulmanov, B. N. Sheinberg, and G. N. Shuppe. *J.* 2232 (1966) [*J.* 2759 (1965)]
- SHUR, M. S.**
On the Dynamics of Crystals Having the Rutile Structure. (T) A. I. Gubanov and M. S. Shur. *J.* 2124 (1966) [*J.* 2626 (1965)]
- SHUSTER, G. V.**
Theory of Intraband Magneto-Optical Effects. (T) Z. I. Uritskii and G. V. Shuster. *J.* 2752 (1966) [*J.* 3415 (1965)]
- SHVACHKO, V. I.**
Application of the Method of Secondary Ion-Ion Emission to the Study of the Interaction of Oxygen with a Niobium Surface. (E) V. I. Shvachko, B. T. Nadykto, Ya. M. Fogel', B. M. Vasyutinskii, and G. N. Kartmazov. *J.* 1572 (1966) [*J.* 1944 (1965)]
- SHVANGIRADZE, R. R.**
Investigation of the Self-Absorption Edge of Boron. (E) Sh. Z. Dzhmagidze, R. R. Shvangiradze, Yu. A. Mal'tsev, and M. F. Gvilava. *J.* 1259 (1965) [*J.* 1563 (1965)]
- SHVED, A. G.**
Current Oscillations in Compensated Germanium and Silicon. (E) B. S. Muravskii, V. S. Guskov, N. G. Krushilina, and A. G. Shved. *J.* 2748 (1966) [*J.* 3412 (1965)]
- SHVEDCHIKOV, A. V.**
Meissner Effect in InP and GaAs. (E) G. N. Belozerskii, Yu. A. Nemilov, S. B. Tomilov, and A. V. Shvedchikov. *J.* 2908 (1966) [*J.* 3607 (1965)]
- SHVIDROVSKI, E. G.**
A Dislocation Theory of Internal Friction. (T) E. G. Shvidkovskii and S. M. Khazardzhyan. *J.* 2120 (1966) [*J.* 2620 (1965)]
- SIDLYARENKO, V. I.**
Influence of Some Structural Factors on the Thermal Stability of Color Centers in Alkali-Halide Crystal Phosphors. (E/T) V. I. Sidlyarenko, F. N. Zaitov, and Yu. L. Lukantsev. *J.* 2664 (1966) [*J.* 3302 (1965)]
- SIDOROV, V. I.**
Influence of an Electric Field on the Long-Wavelength Edge of the Impurity Photoconductivity of Germanium Doped with Zinc and Mercury. (E) V. I. Sidorov, A. Ya. Shul'man, and T. E. Sushko. *J.* 1511 (1965) [*J.* 1877 (1965)]
- SIL'VESTROVA, T. V.**
Mechanical Properties of Polycrystalline Ammonia Under Uniaxial Compression. (E) D. N. Bol'shutkin, A. I. Prokhvatilov, T. V. Sil'vestrova, and V. I. Startsev. *J.* 2255 (1966) [*J.* 2789 (1965)]
- SIMAKOV, G. V.**
Equation of State for Cesium Iodide. (E/T) M. N. Pavlovskii, V. Ya. Vashchenko, and G. V. Simakov. *J.* 972 (1965) [*J.* 1212 (1965)]
- SIMASHKEVICH, A. V.**
Intrinsic Recombination Radiation of Zinc Telluride. (E) M. V. Kot, L. M. Panasyuk, A. V. Simashevich, and A. E. Tsurkan. *J.* 999 (1965) [*J.* 1242 (1965)]
- SIMASHKEVICH, A. V.**
Intrinsic Recombination Radiation of ZnSe-ZnTe Heterojunctions. (E) M. V. Kot, L. M. Panasyuk, A. V. Simashevich, A. E. Tsurkan, and D. A. Sherban. *J.* 1001 (1965) [*J.* 1244 (1965)]
- SIRENKO, A. F.**
Formation of Diffusion Pores in Self-Diffusion. (T/E) B. Ya. Pines and A. F. Sirenko. *J.* 551 (1965) [*J.* 687 (1965)]
- SIRYAK, A. I.**
Some Features of the Magnetoresistance of Alkali Silicate Glasses After γ Irradiation and Heat Treatment. (E) L. M. Belyavskaya and A. I. Siryak. *J.* 2764 (1966) [*J.* 3427 (1965)]
- SKOROBOGAT'KO, A. F.**
Phase Transition in Naphthalene Single Crystals. (E) A. F. Prikhot'ko and A. F. Skorobogat'ko. *J.* 1017 (1965) [*J.* 1259 (1965)]
- SKOROKHOD, M. Ya.**
Investigation of Structural Defects in CdS Single Crystals. (T) N. I. Vitrikhovich, L. I. Datsenko, and M. Ya. Skorokhod. *J.* 693 (1965) [*J.* 870 (1965)]
- SKRIPAK, V. N.**
Scattering of Phonons by Cation Vacancies in Spinel. (T/E) I. I. Vishnevskii and V. N. Skripak. *J.* 2374 (1966) [*J.* 2925 (1965)]
- SLEZOV, V. V.**
Coalescence of Dislocation Loops in the Nonsteady State. (T) Z. K. Saralidze and V. V. Slezov. *J.* 718 (1965) [*J.* 904 (1965)]
- SLEZOV, V. V.**
Theory of the Coalescence of Pores with a Gas. (T) Z. K. Saralidze and V. V. Slezov. *J.* 1299 (1965) [*J.* 1605 (1965)]
- SLOBODCHIKOV, S. V.**
Shift of the Spectral Photosensitivity of p-n Junctions in InAs in an Electric Field. (E/T) M. P. Mikhailova, D. N. Naedlov, and S. V. Slobodchikov. *J.* 1031 (1965) [*J.* 1272 (1965)]
- SLOBODCHIKOV, S. V.**
Electric and Photoelectric Properties of ZnSiP₂. (E) N. A. Goryunova, F. P. Kesamany, D. N. Naedlov, V. V. Negreskul, Yu. V. Rad', and S. V. Slobodchikov. *J.* 1060 (1965) [*J.* 1312 (1965)]
- SLOBODCHIKOV, S. V.**
Electrical Properties of Gallium Phosphide Doped with Tellurium. (E/T) D. N. Naedlov, V. V. Negreskul, and S. V. Slobodchikov. *J.* 1549 (1965) [*J.* 1912 (1965)]
- SLOBODCHIKOV, S. V.**
Photoconductivity Oscillation in GaP. (E) D. N. Naedlov, V. V. Negreskul, S. I. Radatsan, and S. V. Slobodchikov. *J.* 2965 (1966) [*J.* 3671 (1965)]
- SLUTSKER, A. I.**
Variation of Small-Angle X-Ray Diffraction Intensity During Contracting of Polymers. (E) V. A. Markhin, A. I. Slutsker, and A. A. Yastrebinskii. *J.* 352 (1965) [*J.* 441 (1965)]
- SMELYANSKAYA, E. N.**
On the Nature of the Dielectric Losses in Glasses at UHF. (E) M. D. Mashkovich and E. N. Smelyanskaya. *J.* 811 (1965) [*J.* 1008 (1965)]
- SMIRNOV, A. A.**
Influence of an Electric Field on the Position of the Optical Absorption "Edge" in Polycrystalline Films of CdS. (E/T) K. I. Britsyn, B. A. Volkov, V. V. Matveev, and A. A. Smirnov. *J.* 2044 (1966) [*J.* 2536 (1965)]
- SMIRNOV, B. I.**
Relationship Between Dislocation Density and Stresses Resulting from Deformation of LiF Crystals. (E) B. I. Smirnov and Yu. I. Patrikeev. *J.* 1336 (1965) [*J.* 1649 (1965)]

- SMIRNOV, I. A.**
Thermal and Electrical Properties and the Forbidden Band Width of the $\text{Bi}_2\text{Te}_3\text{-Sb}_2\text{S}_3$ Solid-Solution System. (E/T) V. A. Kutasov, B. Ya. Moizhes, and I. A. Smirnov. *J.* 854 (1965) [*J.* 1065 (1965)]
- SMIRNOV, I. A.**
Thermal Conductivity of Solid Solutions Based on Bismuth Telluride. (E) E. A. Gureeva, A. I. Zaslavskii, V. A. Kutasov, and I. A. Smirnov. *J.* 978 (1965) [*J.* 1221 (1965)]
- SMIRNOV, I. A.**
Possible Effect of Quasiloal Lattice Vibrations on the Infrared Absorption and Thermal Conductivity of KCl-H Crystals. (E) D. N. Mirfin, V. S. Oskotskii, I. I. Reshina, I. A. Smirnov, V. V. Tikhonov, and I. S. Zhurkov. *J.* 2433 (1966) [*J.* 3003 (1965)]
- SMIRNOV, I. A.**
Determining the Forbidden-Gap Width of PbTe at High Temperatures. (E) V. A. Seakyan, E. D. Devyatkov, and I. A. Smirnov. *J.* 2541 (1966) [*J.* 3136 (1965)]
- SMIRNOV, V. P.**
Band Structure of Cuprous Oxide. (T) V. P. Smirnov. *J.* 2312 (1966) [*J.* 2856 (1965)]
- SMIRNOV, V. S.**
Pulsation of Stimulated Emission from Solids. (T) B. L. Zhelev, A. P. Kazantsev, V. L. Kolpashchikov, and V. S. Smirnov. *J.* 1416 (1965) [*J.* 1756 (1965)]
- SMIRNOV, V. S.**
Stimulated Traveling-Wave Radiation in Lasers. (T) B. L. Zhelev, A. P. Kazantsev, and V. S. Smirnov. *J.* 2276 (1966) [*J.* 2816 (1965)]
- SMOLENSKII, G. A.**
Nuclear Magnetic Resonance in Paramagnetic TlMnF_3 . (E) M. P. Petrov and G. A. Smolenskii. *J.* 1735 (1966) [*J.* 2156 (1965)]
- SMOLENSKII, G. A.**
Estimate of the Exchange Interaction of the Excited Mn^{2+} Ion in MnO . (E/T) R. V. Pisarev and G. A. Smolenskii. *J.* 2064 (1966) [*J.* 2556 (1965)]
- SMOLENSKII, G. A.**
Ferroacoustic Resonance for Longitudinal Ultrasonic Waves. (E) G. A. Smolenskii and A. Naayrov. *J.* 3002 (1966) [*J.* 3704 (1965)]
- SMOLENSKII, G. S.**
Nuclear Magnetic Resonance in RbMnF_3 . (E) M. P. Petrov, G. S. Smolenskii, and P. P. Syrnkov. *J.* 2984 (1966) [*J.* 3689 (1965)]
- SMOLIN, M. D.**
Investigation of Electric Transport of Components in the Molybdenum-Tungsten System in a Wide Range of Temperatures. (E) M. D. Smolin. *J.* 1758 (1966) [*J.* 2186 (1965)]
- SMORODINA, T. A.**
Observation of Stress Fields Around Individual Dislocations by the Method of Anomalous Transmission of X Rays. (E) L. N. Danil'chuk and T. A. Smorodina. *J.* 1003 (1965) [*J.* 1245 (1965)]
- SNETKOVA, V. A.**
Electrical Properties of Carbides of Transition-Metals in Group IV. (E) O. A. Golikova, A. I. Avgustinik, G. M. Klimashin, L. V. Kozlovskii, S. S. Ordan'yan, and V. A. Snetkova. *J.* 2995 (1966) [*J.* 3698 (1965)]
- SNIGIREV, V. G.**
Hardness of Crystalline Methane. (E/T) D. N. Bol'shutkin, A. V. Leon'eva, V. G. Snigirev, and V. I. Startsev. *J.* 2110 (1966) [*J.* 2607 (1965)]
- SNITKO, O. V.**
Photoconductivity of Silicon in the Infrared Region of the Spectrum. Due to Surface Electron States. (E) Yu. A. Pasechnik and O. V. Snitko. *J.* 2759 (1966) [*J.* 3422 (1965)]
- SNOVDOV, V. M.**
Finding the Distribution Function of a Material Over the Lattice Period. (T) A. S. Kagan and V. M. Snovdov. *J.* 1643 (1966) [*J.* 2036 (1965)]
- SOBAKIN, V. N.**
Anisotropy of the Even Photomagnetic Effect in Germanium. (T) Yu. M. Kagan and V. N. Sobakin. *J.* 2074 (1966) [*J.* 2565 (1965)]
- SOBOLEV, V. V.**
Line Spectra of the Edge Absorption and Luminescence of Cadmium Telluride Crystals. (E/T) V. V. Sobolev. *J.* 725 (1965) [*J.* 914 (1965)]
- SUCHAVA, L. S.**
Complexes of Impurity Ions (Mn^{2+} and F^-) in Strontium Chloride Crystals. (E) M. I. Kornfel'd and L. S. Suchava. *J.* 1931 (1966) [*J.* 2391 (1965)]
- SOKOLOV, V. I.**
The Nature of the Cleavage Surface of Semiconductor Crystals with p-n Junctions. (E) V. I. Sokolov. *J.* 234 (1965) [*J.* 295 (1965)]
- SOKOLOV, V. I.**
Magnetoresistance Oscillations in Pure n-InSb. (E/T) I. M. Tsidil'kovskii, M. M. Aksel'rod, and V. I. Sokolov. *J.* 253 (1965) [*J.* 316 (1965)]
- SOKOLOVA, A. A.**
Radiation Defects in Very Pure Silicon Crystals. (E) V. S. Vavilov, S. I. Vintovkin, A. S. Lyutovich, A. F. Plotnikov, and A. A. Sokolova. *J.* 399 (1965) [*J.* 502 (1965)]
- SOKOLOVA, É. B.**
Optical Properties of Dislocations in Semiconductors. (T) É. B. Sokolova. *J.* 390 (1965) [*J.* 489 (1965)]
- SOKOL'SKAYA, I. L.**
Experimental Investigation of the Energy Spectrum and Emission Properties of Thin Germanium Films on Tungsten. (E) I. M. Mileschinskii and I. L. Sokol'skaya. *J.* 838 (1965) [*J.* 1043 (1965)]
- SOKOL'SKAYA, I. L.**
On the Possibility of Formation of a Semiconductor Compound of Barium and Gold. (T) Yu. G. Shishkin and I. L. Sokol'skaya. *J.* 2805 (1965) [*J.* 3470 (1965)]
- SOLOSHENKO, I. I.**
Decrease of the Critical Stresses for Dislocation Movement and Multiplication During Repeated Bending. (E) R. I. Garber, I. I. Soloshenko, and O. A. Khaidel. *J.* 2147 (1966) [*J.* 2655 (1965)]
- SOLOV'EV, N. N.**
Paramagnetic Resonance of Gadolinium in Synthetic Powellite. (E) M. L. Mel'man and N. N. Solov'ev. *J.* 2512 (1966) [*J.* 3108 (1965)]
- SOLOV'EV, V. I.**
Ferroacoustic Resonance in Yttrium Garnet Doped with Terbium. (E) V. I. Solov'ev and A. G. Gurevich. *J.* 1420 (1965) [*J.* 1761 (1965)]
- SOLOV'eva, E. V.**
Recombination of Nonequilibrium Charge Carriers in InAs Single Crystals. (E) M. I. Iglitsin and E. V. Solov'eva. *J.* 2770 (1966) [*J.* 3433 (1965)]
- SOLTAMOV, U. B.**
Change in the Transparency of p-Type Germanium in Strong Electric Fields. (E) L. E. Vorob'ev, L. P. Mizigreva, U. B. Soltamov, V. I. Stafey, and A. V. Shtrubina. *J.* 2740 (1966) [*J.* 3404 (1965)]
- SOLUNSKII, V. I.**
The Phenomenon of "Vacancy Breakdown" During Self-Diffusion in Alkali-Halide Single Crystals. (E/T) Ya. E. Geguzin, V. I. Solunskii, and L. M. Reznik. *J.* 640 (1965) [*J.* 802 (1965)]
- SONIN, A. S.**
Optical Anisotropy of Tetragonal Single Crystals of Barium and Lead Titanates. (T) L. B. Meisner and A. S. Sonin. *J.* 2951 (1966) [*J.* 3657 (1965)]
- SORIN, E. L.**
Causes of Damping of EPR and Luminescence Signals by Photoexcited Molecules of Naphthalene in Polymethylmetacrylate. (E) E. L. Sorin and V. B. Tsaregradskii. *J.* 1936 (1966) [*J.* 2397 (1965)]
- SOROKIN, G. P.**
Photoconductivity of Cu_2S , Cu_2Se , and Cu_2Te . (E) G. P. Sorokin, Yu. M. Papshch, and P. T. Oush. *J.* 1810 (1966) [*J.* 2244 (1965)]
- SOROKIN, V. K.**
Effect of the Substrate on the Structure and Properties of PbTe Films. (T) L. S. Palatnik, V. K. Sorokin, and M. V. Lebedeva. *J.* 1374 (1965) [*J.* 1699 (1965)]

- SOROKINA, L. A.**
Photoconductivity of Diamond in the Ultraviolet Part of the Spectrum. (E) E. A. Konovalova, L. A. Sorokina, and S. A. Shevchenko. *J.* 876 (1965) [*J.* 1092 (1965)]
- SOROKINA, L. A.**
Temperature Dependence of the Electric Strength of Alkali Halide Crystals. (E/T) E. A. Konovalova and L. A. Sorokina. *J.* 1186 (1965) [*J.* 1475 (1965)]
- SOROKINA, L. P.**
Electron Paramagnetic Resonance of Trivalent Ions of Gadolinium and Iron in Synthetic Calcite. (E) V. A. Atskina, V. G. Lushnikov, and L. P. Sorokina. *J.* 1912 (1966) [*J.* 2367 (1965)]
- SOSHKA, V.**
Scattering of Ions by the Surfaces of Alloys. (E) E. S. Maashkova, V. A. Molchanov, V. Sosha, and M. A. Faruk. *J.* 2371 (1966) [*J.* 2921 (1965)]
- STAFEEV, V. I.**
Change in the Transparency of p-Type Germanium in Strong Electric Fields. (E) L. E. Vorob'ev, L. P. Migreva, U. B. Solimanov, V. I. Stafeev, and A. V. Shurbin. *J.* 2740 (1966) [*J.* 3404 (1965)]
- STAKHIRA, I. M.**
Anisotropy of the Electrical and Photoelectric Properties of InSe. (T/E) I. P. Zhad'ko, É. I. Rashba, V. A. Romanov, I. M. Stakhira, and K. D. Tovstyk. *J.* 1432 (1965) [*J.* 1777 (1965)]
- STAMATESCU, I.**
Certain Properties of HgTe Single Crystals Grown from the Melt. (E) E. Cruceanu, D. Niculescu, N. Nistor, I. Stamatescu, and S. Ionescu-Bujor. *J.* 1456 (1965) [*J.* 1808 (1965)]
- STAMATESCU, I.**
Electrical Properties of Some Solid Solutions of the $Zn_{1-x}Hg_x$ -Te System. (E/T) E. Cruceanu, D. Niculescu, I. Stamatescu, N. Nistor, and S. Ionescu-Bujor. *J.* 1646 (1966) [*J.* 2039 (1965)]
- STANKOVSKII, B. A.**
Effect of the Spectral Composition of Illumination on the Amplification of Ultrasound in Cadmium Sulfide. (E/T) S. G. Kalashnikov, A. I. Morozov, B. A. Stankovskii, and L. A. Sysoev. *J.* 1782 (1966) [*J.* 2215 (1965)]
- STARIK, P. M.**
Forbidden-Band Width in PbTe. (E) P. M. Starik. *J.* 1812 (1966) [*J.* 2246 (1965)]
- STARODUBTSEV, S. V.**
Radiation-Induced Changes in the Properties of Ferroelectrics. Due to an Internal Bias Field. (E) S. V. Starodubtsev and E. V. Peshkov. *J.* 2570 (1966) [*J.* 3175 (1965)]
- STAROSTIN, K. L.**
Irradiation of n-type Ge with Fast Neutrons. (E/T) K. L. Starostin, Yu. F. Tuturov, and L. B. Poretakii. *J.* 522 (1965) [*J.* 654 (1965)]
- STAROSTIN, K. L.**
The Contribution of Isolated and Group Defects to the Change in Carrier Mobility and Concentration in n-Ge During Bombardment by Fast Neutrons. (E/T) K. L. Starostin, Yu. F. Tuturov, and Yu. P. Milovanov. *J.* 2247 (1966) [*J.* 2890 (1965)]
- STARTSEV, V. I.**
Role of the Process of Dislocation Generation in the Twinning of Calcite. (T/E) S. N. Komnik, V. Z. Bengus, and V. I. Startsev. *J.* 96 (1965) [*J.* 127 (1965)]
- STARTSEV, V. I.**
Mechanical Properties of Polycrystalline Ammonia Under Uniaxial Compression. (E) D. N. Bol'shutkin, A. I. Prokhatilov, T. V. Sil'vestrova, and V. I. Startsev. *J.* 2255 (1966) [*J.* 2789 (1965)]
- STARTSEV, V. I.**
Hardness of Crystalline Methane. (E/T) D. N. Bol'shutkin, A. V. Leon'teva, V. G. Snigirev, and V. I. Startsev. *J.* 2110 (1966) [*J.* 2607 (1965)]
- STAVITSKAYA, T. S.**
Thermoelectric Properties of n-Type PbTe at High Temperatures. (E) T. S. Stavitskaya, V. A. Long, and B. A. Efimova. *J.* 2062 (1966) [*J.* 2554 (1965)]
- STEKHANOV, A. I.**
Infrared Absorption Spectra of Perovskite-Type Ferroelectric Crystals. (E) A. I. Stekhanov, A. A. Karamyan, and N. I. Astaf'ev. *J.* 119 (1965) [*J.* 157 (1965)]
- STEKHANOV, A. I.**
Temperature Dependence of the Intensity of the Second-Order Raman Scattering Spectrum of NaCl Crystals. (E) T. I. Maksimova, A. I. Stekhanov, and É. V. Chisler. *J.* 1515 (1965) [*J.* 1881 (1965)]
- STEKHANOV, A. I.**
Temperature Dependence of the Raman Scattering Spectra of the Ferroelectric Crystal KH_2PO_4 . (E) A. I. Stekhanov and E. A. Popova. *J.* 2849 (1966) [*J.* 3530 (1965)]
- STEPANOV, A. V.**
The Production of Germanium Single Crystals of Predetermined Shape. (E) S. V. Tsivinskii and A. V. Stepanov. *J.* 148 (1965) [*J.* 194 (1965)]
- STEPANOV, G. I.**
Impurity and Induced Photoconductivity of Chalcogenide Glass $TiSe_2-Ag_2Te_2$. (E) B. T. Kolomiets, T. N. Mamontova, and G. I. Stepanov. *J.* 1320 (1965) [*J.* 1630 (1965)]
- STEPANOV, G. I.**
Impurity Photoconductivity in Single-Crystal and Glassy Arsenic Selenide. (E) B. T. Kolomiets and G. I. Stepanov. *J.* 2181 (1966) [*J.* 2698 (1965)]
- STEPANOV, V. A.**
Time-to-Rupture and Deformation of Polymers at Low Temperatures. (E) N. N. Peschanskaya and V. A. Stepanov. *J.* 2402 (1966) [*J.* 2962 (1965)]
- STEPANOV, V. G.**
Electron Paramagnetic Resonance of Gd^{3+} in Synthetic $SrMoO_4$. (T/E) I. N. Kurkin and V. G. Stepanov. *J.* 223 (1965) [*J.* 285 (1965)]
- STEPANOV, V. G.**
Paramagnetic Resonance of Terbium in Single Crystals of $PbMoO_4$. (E/T) A. A. Antipin, I. N. Kurkin, V. G. Stepanov, and L. Ya. Shekun. *J.* 792 (1965) [*J.* 985 (1965)]
- STEPANOV, V. G.**
Electron Paramagnetic Resonance of Terbium in CaO_2 . (E) Yu. S. Greznov, M. M. Zaripov, and V. G. Stepanov. *J.* 2937 (1966) [*J.* 3644 (1965)]
- STEPANOV, V. G.**
Investigation of EPR of Mn^{2+} Ions in Single Crystals of $ZnMoO_4$. (E) V. F. Derynov-Pegarev, M. M. Zaripov, M. I. Samoilovich, and V. G. Stepanov. *J.* 2983 (1966) [*J.* 3638 (1965)]
- STEPANOV, V. V.**
Action of Low-Energy Nitrogen Ions on the Surface of Germanium. (E) V. F. Symorov, S. S. Bulgakov, and V. V. Stepanov. *J.* 1108 (1965) [*J.* 1375 (1965)]
- STEPINA, E. I.**
Rate of Disappearance of Mechanical Twins in Calcite. (E) R. I. Garber and E. I. Stepina. *J.* 122 (1965) [*J.* 161 (1965)]
- STEPINA, E. I.**
A Possible Mechanism for the Multiplication of Twinning Dislocations. (T) R. I. Garber and E. I. Stepina. *J.* 366 (1965) [*J.* 459 (1965)]
- STRELKOV, P. G.**
Heat Capacity of Metallic Arsenic at Low Temperatures. (E) V. V. Nogteva, I. E. Paukov, and P. G. Strelkov. *J.* 1884 (1966) [*J.* 2330 (1965)]
- STREL'TSOV, L. N.**
Electric-Field-Induced Shift of the Fundamental Absorption Edge in GaAs, CdS, and CdTe Films. (E) P. S. Kireev, N. N. Orlova, V. N. Saurin, and L. N. Strel'tsov. *J.* 1029 (1965) [*J.* 1271 (1965)]
- STRUKOV, B. A.**
Some Features of the Pulse Polarization Reversal of Internally Polarized Crystals of Triglycine Sulfate. (E) B. A. Strukov and K. A. Minaeva. *J.* 2887 (1966) [*J.* 3579 (1965)]

- STUCHEBNIKOV, V. M.**
Coherent Radiation of GaAs p-n Junctions Prepared by the Diffusion of Beryllium. (E) E. A. Poltoratski, V. M. Stuchebnikov, and A. E. Yunovich. *J.* 1798 (1966) [7, 2231 (1965)]
- SUBASHIEV, A. V.**
Faraday Effect for "Hot Electrons." (T) A. V. Subashiev. *J.* 751 (1965) [7, 936 (1965)]
- SUBASHIEV, A. V.**
The Faraday Effect for "Hot" Electrons in Germanium and Silicon. (T) I. P. Ignatova, R. F. Kazarinov, and A. V. Subashiev. *J.* 1714 (1966) [7, 2129 (1965)]
- SUBASHIEV, V. K.**
A Study of Photoconductivity in Heavily Doped p-Silicon. (T/E) A. A. Vol'fson, S. M. Gorodetskii, and V. K. Subashiev. *J.* 53 (1965) [7, 75 (1965)]
- SUBASHIEV, V. K.**
X-Ray and Optical Investigations of GaAs_xP_{1-x} Crystals. (E) S. A. Abagyan, S. M. Gorodetskii, T. B. Zhukova, A. I. Zaslavskii, A. V. Lishina, and V. K. Subashiev. *J.* 153 (1966) [7, 200 (1965)]
- SUBASHIEV, V. K.**
Optical Absorption in GaP Accompanied by the Formation of Excitons. (E/T) V. K. Subashiev and G. A. Chalikyan. *J.* 992 (1965) [7, 1237 (1965)]
- SUDAKOV, N. I.**
Variation of Losses on Rotational Hysteresis in Single Crystals of Nickel-Cobalt Ferrites as the Result of Heat Treatment and Thermomagnetic Treatment. (E) N. I. Sudakov, S. Sh. Gondolev, and A. I. Drokina. *J.* 1908 (1966) [7, 2362 (1965)]
- SULEIMANOV, Yu. M.**
Luminescence Relaxation and Capture Processes in Silicon Carbide Crystals. (E) I. S. Gorbun' and Yu. M. Suleimanov. *J.* 1035 (1965) [7, 1276 (1965)]
- SULEIMANOV, Yu. M.**
Line and Band Luminescence Spectra of α -SiC (6H) Crystals. (E) I. S. Gorbun', G. I. Mishinova, and Yu. M. Suleimanov. *J.* 2991 (1966) [7, 3694 (1965)]
- SULMANOV, V. M.**
Emission Properties of a Molybdenum Single Crystal. (E) U. A. Azizov, U. V. Vakhidov, V. M. Sulmanov, B. N. Sheinberg, and G. N. Shupe. *J.* 2232 (1966) [7, 2759 (1965)]
- SULYATITSKAYA, T. E.**
Piezoresistivity in Partially Reduced Rutile in the Temperature Range from 78 to 500°K. (E) G. L. Bir, V. N. Bogomolov, E. V. Krivitskii, and T. E. Sulyatitskaya. *J.* 2414 (1966) [7, 2978 (1965)]
- SUSHKO, T. E.**
Influence of an Electric Field on the Long-Wavelength Edge of the Impurity Photoconductivity of Germanium Doped with Zinc and Mercury. (E) V. I. Sidorov, A. Ya. Shul'man, and T. E. Sushko. *J.* 1511 (1965) [7, 1877 (1965)]
- SUSLINA, L. G.**
Narrow-Line Luminescence of Hexagonal ZnS Crystals. (E/T) E. F. Gross, L. G. Suslina, and V. G. Mokerov. *J.* 229 (1965) [7, 291 (1965)]
- SUSLINA, L. G.**
Deformation Splitting of the Principal Exciton Line in the Reflection Spectrum of ZnTe. (E/T) A. A. Kaplyanski and L. G. Suslina. *J.* 1881 (1966) [7, 2327 (1965)]
- SUZDAKINA, L. B.**
Relaxation Phenomena in Diode Structures in Cadmium Sulfide Films. (E/T) E. I. Adirovich, L. A. Dubrovskii, and L. B. Suzdakina. *J.* 789 (1965) [7, 943 (1965)]
- SVECHNIKOV, S. V.**
Determination of the Energy of an Electron-Hole Pair and of the Absolute Quantum Yield in the X-Ray Induced Conductivity of CdS and CdSe Single Crystals. (E) S. V. Svechnikov and V. G. Chalaya. *J.* 2760 (1966) [7, 3413 (1965)]
- SVETLOV, I. L.**
Characteristics of Plastic Deformation in Filamentary Crystals of Copper and Cobalt. (E) S. Z. Bokstein and I. L. Svetlov. *J.* 2697 (1966) [7, 3348 (1965)]
- SVISTOVA, E. A.**
Transverse Resistance and the Hall Effect in p-Type Germanium in Strong Magnetic Fields in the Temperature Range 78-300°K. (E) E. A. Svistova, F. F. Bekker, and Li Pin-tsung. *J.* 2328 (1966) [7, 2871 (1965)]
- SVISTUNOVA, K. I.**
Impurity Recombination Radiation of Diodes Made of Indium-Doped n-Type Silicon. (E) Ya. E. Pokrovskii and K. I. Svistunova. *J.* 1275 (1965) [7, 1579 (1965)]
- SVISTUNOVA, K. I.**
Impurity and Interimpurity Radiative Recombination in Silicon. (E/T) Ya. E. Pokrovskii and K. I. Svistunova. *J.* 1478 (1965) [7, 1837 (1965)]
- SVISTUNOVA, K. I.**
The Effect of Doping on Recombination Radiation in the n-Type Base Region of GaSb Diodes. (E) Ya. E. Pokrovskii and K. I. Svistunova. *J.* 2800 (1966) [7, 3464 (1965)]
- SYNOROV, V. F.**
Action of Low-Energy Nitrogen Ions on the Surface of Germanium. (E) V. F. Synorov, S. S. Bulgakov, and V. V. Stepanov. *J.* 1108 (1965) [7, 1375 (1965)]
- SYRIN, L. N.**
Influence of the Domain Structure of Ceramic Ferroelectrics on Their Mechanical Properties. (E) L. N. Syrin and A. M. El'gard. *J.* 967 (1965) [7, 1206 (1965)]
- SYRNIKOV, P. P.**
Nuclear Magnetic Resonance in RbMgF₂. (E) M. P. Petrov, G. S. Smolenkii, and P. P. Syrnkov. *J.* 2994 (1966) [7, 3689 (1965)]
- SYSOEV, L. A.**
Amplification of Longitudinal Ultrasonic Waves in a Single Crystal of CdS. (E/T) D. N. Astrov, V. I. Balbakov, G. S. Pado, and L. A. Sysoev. *J.* 524 (1965) [7, 655 (1965)]
- SYSOEV, L. A.**
Effect of the Spectral Composition of Illumination on the Amplification of Ultrasound in Cadmium Sulfide. (E/T) S. G. Kalashnikov, A. I. Morozov, B. A. Stankovskii, and L. A. Sysoev. *J.* 1782 (1966) [7, 2215 (1965)]
- SYSOEVA, L. M.**
Influence of High Pressure on the Electrical Properties of Germanium Telluride. (E/T) A. A. Andreev, L. M. Sysoeva, and E. Ya. Lev. *J.* 520 (1965) [7, 652 (1965)]
- SYSOEVA, L. M.**
Energy Spectrum of Carriers in Germanium Telluride. (E/T) L. M. Sysoeva, E. Ya. Lev, and N. V. Kolomoets. *J.* 1791 (1966) [7, 2223 (1965)]
- SYSOEVA, L. M.**
Temperature Dependence of the Hall Effect and of the Electrical Conductivity of Germanium Telluride. (E) A. A. Andreev, L. M. Sysoeva, and E. Ya. Lev. *J.* 2086 (1966) [7, 2558 (1965)]
- SYUTKIN, N. N.**
Field-Emission Microscopy of Ni-Be Alloys. (E) A. P. Komar and N. N. Syutkin. *J.* 2670 (1966) [7, 3310 (1965)]
- TAGIEV, B. G.**
Electrical Conductivity of a Mixture of Amorphous and Crystalline Selenium in Strong Electric Fields. (E) A. R. Bagel' and B. G. Tagiev. *J.* 742 (1965) [7, 928 (1965)]
- TAIROVA, D. A.**
Electrical Anisotropy in Polarized Ceramic Materials (Electro). (E/T) N. P. Bogoroditskii, V. N. Rudakov, and D. A. Tairova. *J.* 528 (1965) [7, 659 (1965)]
- TAKSAMI, I. A.**
The Effect of Pressure on the Spectral Distribution of the Photoeffect in InSb. (E) V. N. Ivakhov, B. V. Izvochikov, and I. A. Taksami. *J.* 2944 (1966) [7, 3650 (1965)]

TALALAIEVA, E. V.

Thermomagnetic and Galvanomagnetic Effects in Manganese Ferrites. (E) K. P. Belov, E. V. Talalaieva, and T. V. Kudryavtseva. *J.* 789 (1965) [7, 981 (1965)]

TALALAKIN, G. N.

Formation and Properties of an Impurity Band in n-Type GaAs. (E/T) O. V. Emel'yanenko, T. S. Lagnova, D. N. Nasedov, and G. N. Talalakin. *J.* 1063 (1965) [7, 1315 (1965)]

TALALAKIN, G. N.

Anomalous Behavior of the Mobility in Gallium Arsenide Doped with Oxygen. (E) N. M. Kolchanova and G. N. Talalakin. *J.* 2522 (1966) [7, 3118 (1966)]

TARASHCHENKO, D. T.

Surface Conductivity of Gold-Doped Germanium. (E/T) G. A. Katrich, O. G. Sarbei, and D. T. Tarashchenko. *J.* 1091 (1965) [7, 1352 (1965)]

TARASOVA, V. P.

Determination of the Characteristic Temperature of Copper and Cu-Sn Alloys from Measurements of the Temperature Coefficient of X-Ray Scattering. (E) Ya. I. Graevskaya, V. I. Iveronova, and V. P. Tarasova. *J.* 1083 (1965) [7, 1342 (1965)]

TARKHANYAN, R. G.

Galvanomagnetic and Thermomagnetic Phenomena in a Longitudinal Quantizing Magnetic Field in n-InSb Type Semiconductors. (T) R. G. Tarkhanyan. *J.* 2174 (1966) [7, 2688 (1965)]

TARKHANYAN, R. G.

Quantum Theory of Thermomagnetic Currents in Semiconductors and Metals. (T) A. I. Ansel'm, Yu. N. Obraztsov, and R. G. Tarkhanyan. *J.* 2293 (1966) [7, 2837 (1965)]

TELEGINA, I. V.

Structural Changes in Neutron Irradiated α -Quartz. (E/T) E. V. Kolostova and I. V. Telegina. *J.* 2207 (1966) [7, 2730 (1965)]

TETEL'BAUM, D. I.

The Electrical Conductivity of Inversion Layers Formed in n-Silicon by Bombardment with Boron Ions. (T) P. V. Pavlov, E. I. Zorin, D. I. Tetel'baum, and E. K. Granitsyna. *J.* 2396 (1966) [7, 2940 (1965)]

THYAGARAJAN, R.

The Motion and Multiplication of Dislocations in Cesium Iodide Crystals. (E/T) R. Thyagarajan and A. A. Urusovskaya. *J.* 64 (1965) [7, 88 (1965)]

TIGANE, I. F.

Electron-Microscope Investigation of Conducting SnO_2 Films. (E) I. F. Tigane. *J.* 212 (1965) [7, 276 (1965)]

TIKHOMIROVA, N. A.

Influence of High Hydrostatic Pressure on the Photoconductivity of CdS Single Crystals. (E/T) K. Gulyamov, N. A. Tikhomirova, and V. M. Fridkin. *J.* 834 (1965) [7, 1037 (1965)]

TIKHOMIROVA, N. A.

Photoconductivity of High Single Crystals at High Hydrostatic Pressures. (E) K. Gulyamov, N. A. Tikhomirova, I. D. Turyantisa, and V. M. Fridkin. *J.* 2201 (1966) [7, 2723 (1965)]

TIKHONOV, V. V.

Scattering of Phonons and Electrons in Solid Solutions. (E/T) E. D. Devyatkov and V. V. Tikhonov. *J.* 1427 (1965) [7, 1770 (1965)]

TIKHONOV, V. V.

Possible Effect of Quasielastic Lattice Vibrations on the Infrared Absorption and Thermal Conductivity of KCl-H Crystals. (E) D. N. Mirin, V. S. Oskotaki, I. I. Rashina, I. A. Smirnov, V. V. Tikhonov, and I. S. Zhurkov. *J.* 2433 (1966) [7, 3003 (1965)]

TIMOV, V. V.

Silicon Solar Cells Produced by Ion Bombardment. (E) V. M. Gusev, V. V. Timov, M. I. Guseva, and V. I. Kurinyi. *J.* 1673 (1966) [7, 2077 (1965)]

TITOV, A. I.

Conductivity Induced in Germanium by Bombardment with Potassium Ions in Different Crystallographic Directions. (E) I. A. Abroyan and A. I. Titov. *J.* 1619 (1966) [7, 2007 (1965)]

TITOV, A. I.

Secondary Emission of Germanium Under Bombardment by Potassium Ions Along Various Crystallographic Directions. (E) I. A. Abroyan, V. P. Lavrov, and A. I. Titov. *J.* 2557 (1966) [7, 3159 (1965)]

TITOVA, A. G.

Compensation of Sublattice Magnetic Moments in Yttrium Iron-Gallium Garnet. (E) B. E. Rubinshtein, A. G. Titova, and B. L. Lapovok. *J.* 1328 (1965) [7, 1639 (1965)]

TITOVA, A. G.

Ferroelectric Resonance in $\text{Bi}_{0.48}\text{Ca}_{0.52}\text{Fe}_{0.11}\text{V}_{1.11}\text{O}_{12}$ Garnet Single Crystals. (E) B. E. Rubinshtein and A. G. Titova. *J.* 2323 (1966) [7, 2867 (1965)]

TKACHENKO, L. A.

The Problem of the Mechanism of the Formation and Annihilation of Heterocharge in Beeswax Electrets. (T/E) V. F. Osukhovskii and L. A. Tkachenko. *J.* 2086 (1966) [7, 2578 (1965)]

TKACHEV, V. D.

Radiative Recombination in Silicon Containing Radiation-Induced Defects. (E) A. V. Yuhnevich and V. D. Tkachev. *J.* 2746 (1966) [7, 3410 (1965)]

TOCHIN, V. A.

Photoconductivity in Irradiated Aromatic Compounds. (E/T) V. A. Tochinn. *J.* 232 (1965) [7, 293 (1965)]

TOLKACHEV, A. M.

Density of Solidified Gases. (E) A. M. Tolkachev and V. G. Manzheli. *J.* 1711 (1966) [7, 2125 (1965)]

TOLPYGO, E. I.

Microwave Conductivity of Semiconductors with Carriers Heated by a DC Field. (T) I. M. Dykman and E. I. Tolpygo. *J.* 332 (1965) [7, 414 (1965)]

TOLPYGO, E. I.

Auger Recombination Involving Carriers Located at Different Centers. (T) E. I. Tolpygo, K. B. Tolpygo, and M. K. Sheinkman. *J.* 1442 (1965) [7, 1790 (1965)]

TOLPYGO, E. I.

Anisotropy of the Microwave Conductivity and Absorption in Semiconductors with Hot Carriers. (T) I. M. Dykman and E. I. Tolpygo. *J.* 1804 (1966) [7, 2237 (1965)]

TOLPYGO, K. B.

Auger Recombination Involving Carriers Located at Different Centers. (T) E. I. Tolpygo, K. B. Tolpygo, and M. K. Sheinkman. *J.* 1442 (1965) [7, 1790 (1965)]

TOMASHEVSKII, E. E.

Effect of Mechanical Stresses on the Photolysis Kinetics of Kapron. (E) E. E. Tomashevskii, I. N. Pavlova, and A. Ya. Savostin. *J.* 387 (1965) [7, 485 (1965)]

TOMASHPOL'SKII, Yu. Ya.

New Lead-Containing Perovskites. (E) Yu. Ya. Tomashpol'skii and Yu. N. Venetsev. *J.* 412 (1965) [7, 517 (1965)]

TOMASHPOL'SKII, Yu. Ya.

Ferroelectricity and Magnetism in Ferroelectric-Ferromagnetic Systems. (E) Yu. Ya. Tomashpol'skii, Yu. N. Venetsev, and V. N. Beznazdrev. *J.* 2235 (1966) [7, 2763 (1965)]

TOMASHPOL'SKII, Yu. Ya.

Ferroelectricity-Magnetism in the System $\text{Pb}_2\text{CoWO}_6\text{-BaTiO}_3$. (E) Yu. Ya. Tomashpol'skii and Yu. N. Venetsev. *J.* 2529 (1966) [7, 3126 (1965)]

TOMCHUK, P. M.

Conduction Anisotropy of Hot Electrons and Interelectron Interactions. (T/E) I. M. Dykman and P. M. Tomchuk. *J.* 224 (1965) [7, 286 (1965)]

TOMCHUK, P. M.

Anisotropic Effect of Electron-Electron Scattering on the Conductivity of Semiconductors with Ellipsoidal Equienergy Surfaces. (T) I. M. Dykman and P. M. Tomchuk. *J.* 1861 (1966) [7, 2298 (1965)]

- TOMCHUK, P. M.**
Temperature and Mobility of Hot Electrons in Polar Semiconductors. (T) N. N. Grigor'ev, I. M. Dykman, and P. M. Tomchuk. *J.* 2719 (1966) [J, 3378 (1965)]
- TOMILOV, S. B.**
The Mössbauer Effect in Alkali-Iron-Silicate Glasses. (E) A. A. Belyustin, Yu. M. Ostanevich, A. M. Pisarevskii, S. B. Tomilov, U. Bai-shi, and L. Cher. *J.* 1163 (1965) [J, 1447 (1965)]
- TOMILOV, S. B.**
Mössbauer Effect in InP and GaAs. (E) G. N. Beloserevskii, Yu. A. Nemilov, S. B. Tomilov, and A. V. Shvedchikov. *J.* 2908 (1966) [J, 3607 (1965)]
- TOVSTYUK, K. D.**
Anisotropy of the Electrical and Photoelectric Properties of In_2Se_3 . (T/E) I. P. Zhad'ko, É. I. Raabha, V. A. Romanov, I. M. Stakhrin, and K. D. Tovstuyuk. *J.* 1432 (1965) [J, 1777 (1965)]
- TOVSTYUK, K. D.**
Piezoresistance of Sb_2Te_3 . (T/E) D. M. Bercha, Z. V. Pankevich, A. V. Savitskii, and K. D. Tovstuyuk. *J.* 1968 (1966) [J, 2437 (1965)]
- TREGUBOV, G. A.**
The Electro-Optical Properties of $\text{NH}_4\text{H}_2\text{PO}_4$, KH_2PO_4 , and $\text{N}_4(\text{CH}_3)_4$ Crystals in UHF Fields. (E) Yu. V. Pisarevskii, G. A. Tregubov, and Yu. V. Shaldin. *J.* 530 (1965) [J, 661 (1965)]
- TRETYAK, O. V.**
Photocurrent Oscillations in High-Resistance GaAs. (E) Yu. I. Karkhanin and O. V. Tretyak. *J.* 2787 (1966) [J, 3451 (1965)]
- TRIFONOV, E. D.**
Theory of Resonance Raman Scattering of Light in Doped Crystals. (T) E. D. Trifonov and K. Polker. *J.* 1897 (1966) [J, 2345 (1965)]
- TROITSKII, I. V.**
Kinetics of Dislocation Pinning by Point Defects in Ionic Crystals. (E) A. A. Bistatov, I. V. Troitskii, and M. P. Shaakal'skaya. *J.* 1492 (1965) [J, 1856 (1965)]
- TRONEVA, N. V.**
Mechanism of the Anomalous Diffusion of Zinc in Indium Antimonide. (E) I. V. Prostoserdova, E. Ya. Pumper, and N. V. Troneva. *J.* 2631 (1966) [J, 3255 (1965)]
- TRUBITSYN, V. P.**
Equation of State of Solid Hydrogen. (T) V. P. Trubitsyn. *J.* 2708 (1966) [J, 3363 (1965)]
- TRUBITSYN, V. P.**
Vander Waals Forces at High Pressures. (T) V. P. Trubitsyn. *J.* 2779 (1966) [J, 3443 (1965)]
- TRUKAN, M. K.**
Some Photoelectric Properties of Gallium Phosphide-Gallium Arsenide p-n Heterojunctions. (E) Zh. I. Alferov, N. S. Zimogorova, M. K. Trukan, and V. M. Tuchkevich. *J.* 990 (1965) [J, 1235 (1965)]
- TRUKAN, M. K.**
Growth and Electrical Properties of Epitaxial Layers p-Type Gallium Phosphide. (E) Zh. I. Alferov, V. I. Korol'kov, M. K. Trukan, and S. P. Chashechin. *J.* 1915 (1966) [J, 2370 (1965)]
- TRUNIN, R. F.**
Compression of Alkali Metals by Strong Shock Waves. (E/T) A. A. Bakanov, I. P. Dudoladov, and R. F. Trunin. *J.* 1307 (1965) [J, 1615 (1965)]
- TSAREGRADSKII, V. B.**
Causes of Damping of EPR and Luminescence Signals by Photoexcited Molecules of Naphthalene in Polymethylmethacrylate. (E) E. L. Sorin and V. B. Tsaregradskii. *J.* 1936 (1966) [J, 2397 (1965)]
- TSARENKOV, B. V.**
Recombination Radiation of p-n Tunnel Junctions in GaAs. (E) A. N. Imenkov, M. M. Kozlov, S. S. Meskin, D. N. Naalevov, V. N. Ravich, and B. V. Tsarenkov. *J.* 504 (1965) [J, 634 (1965)]
- TSARENKOV, B. V.**
Electroluminescence Spectra of Strongly Degenerate Gallium Arsenide. (E/T) A. N. Imenkov, M. M. Kozlov, S. S. Meskin, D. N. Naalevov, V. N. Ravich, and B. V. Tsarenkov. *J.* 618 (1965) [J, 775 (1965)]
- TSARENKOV, B. V.**
Electron-Hole Transition in a Highly Degenerate Semiconductor at Excessive Current Densities. (T/E) A. N. Imenkov, M. M. Kozlov, D. N. Naalevov, and B. V. Tsarenkov. *J.* 1190 (1965) [J, 1480 (1965)]
- TSARENKOV, B. V.**
Influence of Impurities on the Recombination Radiation Spectra of Gallium Arsenide. (E) A. N. Imenkov, L. M. Kogan, M. M. Kozlov, S. S. Meskin, D. N. Naalevov, and B. V. Tsarenkov. *J.* 2519 (1966) [J, 3115 (1965)]
- TSEKVAVA, B. E.**
Theory of the Polarization Operator. (T) V. N. Piskovoi and B. E. Tsekvava. *J.* 908 (1965) [J, 1132 (1965)]
- TSENDIN, L. D.**
The Problem of the Reaction of Thermionic Emission on the Value of the Saturation Current. (T) L. D. Tsendin. *J.* 844 (1965) [J, 1078 (1965)]
- TSIDIL'KOVSKII, I. M.**
The Nernst-Ettingshausen Effect in Doped n-Silicon. (T/E) L. I. Domanskaya, G. I. Kharus, and I. M. Tsidil'kovskii. *J.* 32 (1965) [J, 46 (1965)]
- TSIDIL'KOVSKII, I. M.**
Magnetoresistance Oscillations in Pure n-InSb. (E/T) I. M. Tsidil'kovskii, M. M. Akkel'rod, and V. I. Sokolov. *J.* 283 (1965) [J, 316 (1965)]
- TSIDIL'KOVSKII, I. M.**
Transport Processes in Doped Indium Antimonide at High Pressures. (E) K. M. Demchuk, I. M. Tsidil'kovskii, and K. P. Rodionov. *J.* 1257 (1965) [J, 1561 (1965)]
- TSIKIN, A. N.**
Change in the Electrical Conductivity of Perovskite-Type Ceramics in an Electric Field at High Temperatures. (E) V. Ya. Kuntin, A. N. Tskhin, and A. Shaktirov. *J.* 2961 (1966) [J, 3666 (1965)]
- TSIOVKIN, Yu. N.**
Specific Heat of 0.5% Solutions of Cr, Mn, Fe, and Ni in Platinum. (E/T) Yu. N. Tsiovkina and N. V. Volkenshtein. *J.* 432 (1965) [J, 543 (1965)]
- TSIPINYUK, B. A.**
Secondary Emission of Excited Cesium Atoms During Bombardment of Molybdenum and Tantalum by Fast Cesium Ions. (E) V. I. Veksel and B. A. Tsipinyuk. *J.* 2728 (1966) [J, 3386 (1965)]
- TSIVINSKII, S. V.**
The Production of Germanium Single Crystals of Predetermined Shape. (E) S. V. Tsivinskii and A. V. Stepanov. *J.* 148 (1965) [J, 194 (1965)]
- TURKAN, A. E.**
Intrinsic Recombination Radiation of Zinc Telluride. (E) M. V. Kot, L. M. Panasyuk, A. V. Simashkevich, and A. E. Turkan. *J.* 999 (1965) [J, 1242 (1965)]
- TURKAN, A. E.**
Intrinsic Recombination Radiation of ZnSe-ZnTe Heterojunctions. (E) M. V. Kot, L. M. Panasyuk, A. V. Simashkevich, A. E. Turkan, and D. A. Sherban. *J.* 1001 (1965) [J, 1244 (1965)]
- TURKAN, A. E.**
Recombination Radiation in p-n Junctions of Crystals of the CdTe-ZnTe System. (E) M. V. Kot and A. E. Turkan. *J.* 2304 (1966) [J, 2848 (1965)]
- TURKERBLAT, B. S.**
Theory of Many-Phonon Nonradiative Transitions in Local Paramagnetic Centers. (T) B. S. Turkerblat and Yu. E. Perlin. *J.* 2647 (1966) [J, 3278 (1965)]
- TUCKEVEICH, V. M.**
Some Photoelectric Properties of Gallium Phosphide-Gallium Arsenide p-n Heterojunctions. (E) Zh. I. Alferov, N. S. Zimogorova, M. K. Trukan, and V. M. Tuchkevich. *J.* 990 (1965) [J, 1235 (1965)]
- TUCKEVEICH, V. M.**
Piezomagnetoresistance in n-Type Germanium. (T/E) M. Mirzaeeb, V. M. Tuchkevich, and Yu. V. Shmarov. *J.* 2774 (1966) [J, 3437 (1965)]

TURKOV, S. K.

Internal Friction Due to the Reorientation of Divacancies in a FCC Lattice. (E/T) S. K. Turkov and T. D. Shermergor. *J.* 1664 (1966) [*J.* 2064 (1965)]

TURKOV, S. K.

Effect of Stress Alignment on the High-Temperature Background of Internal Friction. (T) S. K. Turkov and T. D. Shermergor. *J.* 2395 (1966) [*J.* 2952 (1965)]

TUROV, E. A.

The Energy Gap for the Spin Waves in Ferro- and Antiferromagnets, as Related to the Magnetoelastic Energy. (T) E. A. Turov and V. G. Shavrov. *J.* 166 (1965) [*J.* 217 (1965)]

TURYANITSA, I. D.

Photoconductivity of Hg_2 Single Crystals at High Hydrostatic Pressures. (E) K. Gulyamov, N. A. Tikhomirova, I. D. Turyanitsa, and V. M. Fridkin. *J.* 2201 (1966) [*J.* 2723 (1965)]

TUTOV, A. G.

Nature of Phase Transformations in Solid Solutions of $BiFeO_3$ with $PbFe_{1-x}Nb_xO_3$. (E) N. N. Krainik, N. P. Khuchua, A. A. Bereshnoi, and A. G. Tutov. *J.* 100 (1965) [*J.* 132 (1965)]

TUTOV, A. G.

Structure and Magnetic Properties of $TiMnF_3$. (E) S. A. Kizhaev, A. G. Tutov, and V. A. Bokov. *J.* 2325 (1966) [*J.* 2868 (1965)]

TUTUROV, Yu. F.

Irradiation of n-type Ge with Fast Neutrons. (E/T) K. L. Starostin, Yu. F. Tuturov, and L. B. Poretskii. *J.* 522 (1965) [*J.* 654 (1965)]

TUTUROV, Yu. F.

The Contribution of Isolated and Group Defects to the Change in Carrier Mobility and Concentration in n-Ge During Bombardment by Fast Neutrons. (E/T) K. L. Starostin, Yu. F. Tuturov, and Yu. P. Milovanov. *J.* 2347 (1966) [*J.* 2890 (1965)]

TYAGAL, V. A.

Calculation of the Dynamic Surface-Charging Curve of Semiconductors. (T) V. A. Tyagal and Yu. Ya. Gurevich. *J.* 7 (1965) [*J.* 12, (1965)]

TYAGAL, V. A.

Inclusion of Quantum Effects in the Theory of the Space-Charge Layer in Semiconductors. (T) V. A. Tyagal and A. V. Sachenko. *J.* 2808 (1966) [*J.* 3472 (1965)]

TYAPKINA, N. D.

Impurity Photoconductivity in p-Type Germanium Containing Beryllium. (E) N. D. Tyapkina and V. S. Vavilov. *J.* 1010 (1965) [*J.* 1252 (1965)]

TYUTIN, M. S.

Influence of Oxygen on the Ionic Conductivity of Fluorite Crystals. (E) V. A. Arkhangelskaya, T. I. Nikitinskaya, and M. S. Tyutin. *J.* 2376 (1966) [*J.* 3652 (1965)]

UDOVENCHIK, V. T.

The Effect of Oxygen Impurity on the Optical Properties of CaF_2 - Sm Crystals. (E) L. V. Krotova, V. V. Osisko, and V. T. Udovenchik. *J.* 181 (1965) [*J.* 238 (1965)]

UDOVENCHIK, V. T.

Optical Properties of CaF_2-Dy^{3+} Crystals. (E) Yu. K. Voronko, V. V. Osisko, V. T. Udovenchik, and M. M. Fursikov. *J.* 204 (1965) [*J.* 267 (1965)]

UDOVENCHIK, V. T.

Optical Properties of CaF_2-Nd^{3+} Crystals. (E/T) Yu. K. Boronko, L. V. Krotova, V. V. Osisko, V. T. Udovenchik, and M. M. Fursikov. *J.* 1450 (1965) [*J.* 1800 (1965)]

UDOVENKO, N. G.

Dielectric Properties of Glasses of the $MeO-Al_2O_3-SiO_2$ System. (E) M. D. Maashkovich and N. G. Udovenko. *J.* 417 (1965) [*J.* 524 (1965)]

UKHANOV, Yu. I.

Effective Electron Mass and Optical Forbidden-Band Width of Indium Arsenide Films. (E/T) S. G. Shul'man and Yu. I. Ukhonov. *J.* 768 (1965) [*J.* 952 (1965)]

UMANSKII, Ya. S.

X-Ray Characteristic Temperature of a Germanium-Silicon Solid Solution. (T/E) Ya. S. Umanski, V. I. Prilepskii, and S. S. Gorelik. *J.* 1802 (1966) [*J.* 2235 (1965)]

UMANSKII, Ya. S.

An Investigation of Order in an Equiatomic Germanium-Silicon Solid Solution by Measurement of Diffuse X-Ray Scattering. (E) Ya. S. Umanski, V. I. Prilepskii, and S. S. Gorelik. *J.* 2162 (1966) [*J.* 2673 (1965)]

UMANSKII, Ya. S.

Elastic Vibration Spectra and Characteristic Temperatures of Germanium and Silicon. (T/E) Ya. S. Umanski and V. I. Prilepskii. *J.* 2399 (1966) [*J.* 2958 (1965)]

URITSKII, Z. I.

Theory of Intra-band Magneto-Optical Effects. (T) Z. I. Uritskii and G. V. Shuster. *J.* 2752 (1966) [*J.* 3415 (1965)]

URUSOVSKAYA, A. A.

The Motion and Multiplication of Dislocations in Cesium Iodide Crystals. (E/T) R. Thyagarajan and A. A. Urusovskaya. *J.* 64 (1965) [*J.* 88 (1965)]

USKOV, V. A.

Effect of the Internal Electric Field on the Diffusion of Impurities in Semiconductors. (T/E) V. V. Vas'kin, V. A. Uskov, and M. Ya. Shirobokov. *J.* 2703 (1966) [*J.* 3356 (1965)]

VAINSHTEIN, E. E.

Investigation of the Valence Band in Alkali Chloride Crystals from X-Ray Emission Spectra. (E) E. E. Vainshtein, L. N. Mazalov, and V. G. Zyranyov. *J.* 882 (1965) [*J.* 1099 (1965)]

VAINSHTEIN, E. E.

Utilization of X-Ray Spectral Analysis for the Investigation of the Valence State of Manganese Atoms in Complex Oxide Semiconductors. (E) E. E. Vainshtein, R. M. Ovrutskaya, and B. I. Kotlyar. *J.* 1707 (1966) [*J.* 2120 (1965)]

VAINSHTEIN, E. E.

X-Ray Spectroscopic Investigation of the Valence State of Samarium in the Metal and in its Monosulfide. (E) S. M. Blokhin, E. E. Vainshtein, and V. M. Bertenev. *J.* 2870 (1966) [*J.* 3558 (1965)]

VAIPOLIN, A. A.

Diamond-Like Semiconductors in the Glassy State. (E) A. A. Vaipolin, E. O. Osmanov, and Yu. V. Rud'. *J.* 1833 (1966) [*J.* 2266 (1965)]

VAKHIDOV, U. V.

Emission Properties of a Molybdenum Single Crystal. (E) U. A. Ashtov, U. V. Vakhidov, V. M. Sulmanov, B. N. Shelnberg, and G. N. Shupye. *J.* 2332 (1966) [*J.* 2759 (1965)]

VALISHEV, R. M.

Spin-Lattice Relaxation and Phonon Heating in Nickel Fluorosulfate. (E) R. M. Valishev. *J.* 733 (1965) [*J.* 921 (1965)]

VALYASHKO, E. G.

An Investigation of the Distribution of Inhomogeneous Regions in Semiconductors. (E) I. A. Baev and E. G. Valyashko. *J.* 2063 (1966) [*J.* 2585 (1965)]

VARFOLOMEEV, A. V.

Zeeman Splitting of the Radiation Line $\lambda_2 = 2.36 \mu$ in the Spectrum of a CaF_2-Dy^{3+} Crystal. (E) B. P. Zakharchenya, A. V. Varfolomeev, and I. B. Rusanov. *J.* 1150 (1965) [*J.* 1428 (1965)]

VASETSKII, V. M.

Temperature Dependence of the Conductivity of Silicon in Strong Electric Fields. (E) B. L. Bolchenko and V. M. Vasetskii. *J.* 1631 (1966) [*J.* 2021 (1965)]

VASHCHENKO, V. Ya.

Equation of State for Cesium Iodide. (E/T) M. N. Pavlovskii, V. Ya. Vashchenko, and G. V. Simakov. *J.* 972 (1965) [*J.* 1212 (1965)]

VASHKEVICHUS, R.

Hall Effect in p-Type Germanium in Strong Electric Fields. (E) K. Rephas, R. Vashkevichus, V. Denis, and Yu. Pozhela. *J.* 740 (1965) [*J.* 927 (1965)]

VASIL'EV, I. A.

Appearance of an EMF on the Annealing of NaCl: Ag Single Crystals Irradiated with Beta-Particles. (E) V. P. Avdonin, I. A. Vasil'ev, G. A. Mikhail'shenko, B. T. Plachenov, and V. A. Shibaev. *J.* 2514 (1966) [7, 3110 (1968)]

VAS'KIN, V. V.

Effect of the Internal Electric Field on the Diffusion of Impurities in Semiconductors. (T/E) V. V. Vas'kin, V. A. Uskov, and M. Ya. Shirokov. *J.* 2703 (1966) [7, 3356 (1968)]

VASYUTINSKII, B. M.

Application of the Method of Secondary Ion-Ion Emission to the Study of the Interaction of Oxygen with a Niobium Surface. (E) V. I. Shvachko, B. T. Nadykto, Ya. M. Fogel', B. M. Vasyutinskii, and G. N. Kartmazov. *J.* 1572 (1966) [7, 1944 (1965)]

VATEVA, E.

Conditions for Obtaining Stable Negative Resistance in CDS. (E) E. Vateva. *J.* 2737 (1966) [7, 3402 (1965)]

VATOVA, L. B.

Calculation of the Fourth Moment for Nuclear Magnetic Resonance in Ferro-Dielectrics. (T) L. B. Vatova. *J.* 1717 (1966) [7, 2133 (1965)]

VATULEV, V. N.

Martensite-Type Polymorphic Transformation in Octahydroanthracene Crystals. (E) V. N. Vahlev and A. F. Prihot'ko. *J.* 29 (1965) [7, 42 (1965)]

VAILOV, V. S.

Radiation Defects in Very Pure Silicon Crystals. (E) V. S. Vailov, S. I. Vinokhov, A. S. Lyutovich, A. F. Plotnikov, and A. A. Sokolova. *J.* 399 (1965) [7, 502 (1965)]

VAILOV, V. S.

Radiative Recombination in Germanium Crystals Having a High Density of Dislocations. (E/T) A. A. Gippius, V. S. Vailov, L. A. Goncharov, and M. S. Murashov. *J.* 513 (1965) [7, 645 (1965)]

VAILOV, V. S.

Radiative Recombination at Radiation Structure Defects in Germanium. (E/T) A. A. Gippius and V. S. Vailov. *J.* 515 (1965) [7, 647 (1965)]

VAILOV, V. S.

New Data on the Electron-Excited Recombination Radiation Spectrum of Cadmium Telluride. (E) V. S. Vailov, E. L. Nolle, and V. D. Egorov. *J.* 749 (1965) [7, 934 (1965)]

VAILOV, V. S.

Impurity Photoconductivity in p-Type Germanium Containing Beryllium. (E) N. D. Tyapkina and V. S. Vailov. *J.* 1010 (1965) [7, 1252 (1965)]

VAILOV, V. S.

Probability (Yield) of Radiative Recombination in Cadmium Telluride for Electron Excitation. (E) M. V. Vailov, E. L. Nolle, and S. N. Maksimovskii. *J.* 1253 (1965) [7, 1558 (1965)]

VAILOV, V. S.

Energy of Ionization by Electrons in Germanium and Silicon Carbide Crystals. (E/T) G. P. Golubev, V. S. Vailov, and V. D. Egorov. *J.* 3006 (1966) [7, 3702 (1968)]

VEDERNIKOV, M. V.

Electrical Resistance and Thermoelectric Power of La-Ce, La-Pr, and Pr-Nd Alloys. (E) M. V. Vedernikov, I. A. Markova, and G. N. Meshkova. *J.* 766 (1965) [7, 950 (1965)]

VEDULA, Yu. S.

Direct Proof of the Existence of Positive Charge in Adsorbed Th Atoms. (E) Yu. S. Vedula and V. M. Gavriluk. *J.* 2056 (1966) [7, 2547 (1965)]

VEKHTER, B. G.

The Spin-Lattice Relaxation Mechanism in Systems having Inversion Splitting. (T/E) I. B. Bersuker and B. G. Vekhter. *J.* 956 (1965) [7, 1231 (1968)]

VEKHTER, B. G.

Anomalies in the Heat Capacity and Heat Conduction of Complex Crystals. (T) B. G. Vekhter and I. B. Bersuker. *J.* 1265 (1965) [7, 1569 (1965)]

VEKSLER, V. I.

Influence of Metal Crystal Structures on the Scattering of Slow Positive Ions. (E) V. I. Vekslar. *J.* 500 (1965) [7, 629 (1965)]

VEKSLER, V. I.

Some Peculiarities of the Focusing of Atomic Collisions in Cathode Sputtering from Tungsten and Molybdenum Single Crystals. (E) R. A. Ashmynanik, M. B. Ben'yaminovich, and V. I. Vekslar. *J.* 1314 (1965) [7, 1623 (1965)]

VEKSLER, V. I.

Secondary Emission of Excited Cesium Atoms During Bombardment of Molybdenum and Tantalum by Fast Cesium Ions. (E) V. I. Vekslar and B. A. Tsipinyuk. *J.* 2725 (1966) [7, 3386 (1965)]

VENETSKAYA, M. M.

Investigation of Ferrite Garnet Crystals Containing Vanadium. (E) A. N. Ageev, M. M. Venetskaya, G. A. Zablotskii, I. E. Myl'nikova, R. V. Pisarev, and O. B. Proskuryakov. *J.* 2310 (1966) [7, 2853 (1965)]

VENEVTSEV, Yu. N.

Investigation of the Structure and Magnetic Properties of Solid Solutions in the System $\text{BiFeO}_3\text{-LaCrO}_3$. (E) Yu. N. Venevtsev and Yu. N. Venevtsev. *J.* 321 (1965) [7, 400 (1965)]

VENEVTSEV, Yu. N.

New Lead-Containing Perovskites. (E) Yu. Ya. Tomashpol'skii and Yu. N. Venevtsev. *J.* 412 (1965) [7, 517 (1965)]

VENEVTSEV, Yu. N.

Ferroelectricity and Magnetism in Ferroelectric-Ferromagnetic Systems. (E) Yu. Ya. Tomashpol'skii, Yu. N. Venevtsev, and V. N. Bernozdrev. *J.* 2235 (1966) [7, 2763 (1965)]

VENEVTSEV, Yu. N.

Ferroelectricity-Magnetism in the System $\text{PbCo}_2\text{WO}_6\text{-BaTiO}_3$. (E) Yu. Ya. Tomashpol'skii and Yu. N. Venevtsev. *J.* 2529 (1966) [7, 3126 (1965)]

VERESHCHAGIN, I. K.

Impact Ionization in Silicon Carbide. (E/T) I. K. Vereshchagin and A. S. Kirichuk. *J.* 1027 (1965) [7, 1265 (1965)]

VERGUNAS, F. I.

Residual Dielectric Effect of the Electroluminescence in ZnS Electroluminescent Phosphors. (E) F. I. Vergunas and K. Sh. Enikeeva. *J.* 1842 (1966) [7, 2276 (1965)]

VERNER, V. D.

Nature of the Internal Friction Peak in Face-Centered Cubic Interstitial Solid Solutions. (E/T) V. D. Verner. *J.* 1874 (1966) [7, 2318 (1965)]

VILESOV, F. I.

Excitation of the Fluorescence of Zinc Oxide by "Hot" Photoelectrons Generated by Vacuum Ultraviolet Radiation. (E) F. I. Vilesov, A. A. Zagrebukii, and Ya. M. Zelkina. *J.* 1800 (1966) [7, 2232 (1965)]

VILU, R. O.

Role of Hole Processes in the Formation of F-Centers in Ionic Crystals During the Initial Stage of Radiation-Induced Coloration. (E) R. O. Vilu and M. A. Ilango. *J.* 2947 (1966) [7, 3673 (1965)]

VINETSKII, V. L.

Two-Phonon Processes in the Spin-Lattice Relaxation of F-Centers. (T) V. Ya. Kravchenko and V. L. Vinetskii. *J.* 1 (1965) [7, 3 (1965)]

VINETSKII, V. L.

One-Phonon Spin-Lattice Relaxation under the Action of Optical Vibrations. (T/E) V. L. Vinetskii and V. Ya. Kravchenko. *J.* 256 (1965) [7, 319 (1965)]

VINETSKII, V. L.

Theory of Laser Emission via Band-to-Band Transitions in Impurity Semiconductors. (T) G. Yu. Buryakovskii, V. L. Vinetskii, and V. S. Mashevich. *J.* 827 (1965) [7, 1028 (1968)]

- VINETSKII, V. L.
Generation of Laser Radiation by Direct Transitions in a Semiconductor. (T) V. L. Vinetskii and V. S. Mashkevich. *J.* 1534 (1965) [7, 1898 (1965)]
- VINETSKII, V. L.
Theory of Laser Emission Associated with Indirect Band-to-Band Transitions. (T) V. S. Mashkevich and V. L. Vinetskii. *J.* 1605 (1966) [7, 1987 (1965)]
- VINOKUROV, I. V.
EPR Spectra of the Gd^{3+} Ion in Single Crystals of CoO_2 . (E) I. V. Vinokurov, Z. N. Zonn, and V. A. Ioffe. *J.* 814 (1965) [7, 1012 (1965)]
- VINOKUROV, I. V.
EPR Study of Silicon and Lead Sulfide Surfaces. (E) T. T. Bykova and I. V. Vinokurov. *J.* 2103 (1966) [7, 2597 (1965)]
- VINOKUROV, I. V.
Forbidden Fine-Structure Transitions of the Gd^{3+} Ion in a CoO_2 Crystal. (T/E) G. L. Bir and I. V. Vinokurov. *J.* 2730 (1966) [7, 3392 (1965)]
- VINTAIKIN, E. Z.
Investigation of the Thermal Vibrations of the Atoms in Copper by Neutron Spectrometry. (E) E. Z. Vintaiкин, V. V. Gorbachev, and P. L. Grushin. *J.* 296 (1965) [7, 367 (1965)]
- VINTAIKIN, E. Z.
Phonon Frequencies Along the [100] Direction in the Nickel Lattice. (E/T) E. Z. Vintaiкин and V. V. Gorbachev. *J.* 1547 (1965) [7, 1910 (1965)]
- VINTOVKIN, S. I.
Radiation Defects in Very Pure Silicon Crystals. (E) V. S. Vavilov, S. I. Vintovkin, A. S. Lyutovskaya, A. F. Plotnikov, and A. A. Sokolova. *J.* 399 (1965) [7, 502 (1965)]
- VISHNEVSKII, I. I.
Scattering of Phonons by Cation Vacancies in Spinel. (T/E) I. I. Vishnevskii and V. N. Skripak. *J.* 2374 (1966) [7, 2925 (1965)]
- VITMAN, F. F.
Reserves of Strength in Sheet Glass and Its Dispersion. (E) F. F. Vitman, G. S. Pugachev, and V. P. Pukh. *J.* 2196 (1966) [7, 2717 (1965)]
- VITRIKHOVSKII, N. I.
Investigation of Structural Defects in CdS Single Crystals. (T) N. I. Vitrikhovskii, L. I. Daisenko, and M. Ya. Skorokhod. *J.* 693 (1965) [7, 870 (1965)]
- VITRIKHOVSKII, N. I.
The Nature of the Observable Hole Conductivity in CdS Crystals with Cu Impurity. (E) N. I. Vitrikhovskii and M. V. Kurik. *J.* 2969 (1966) [7, 3676 (1965)]
- VLACENKO, A. I.
Electronic-Vibrational Luminescence of Large-Radius Impurity Centers. (T/E) V. L. Brude, A. I. Vlacenko, E. I. Rashba, and E. F. Shuka. *J.* 1086 (1966) [7, 2094 (1965)]
- VLADIMIROV, V. I.
Regarding Local Work Functions. (T) V. I. Vladimirov. *J.* 1536 (1965) [7, 1900 (1965)]
- VLADIMIRSKII, Yu. B.
Electrical Conductivity of X-Ray Irradiated Fluorite Crystals. (E) Yu. B. Vladimirskii and T. I. Nikitinskaya. *J.* 2912 (1966) [7, 3612 (1965)]
- VLASOVA, R. M.
The Relationship Between Carrier Concentration and Unpaired Electron Concentration in Pyrolyses of Polyacrylonitrile. (E) R. M. Vlasova and A. V. Ainspetyants. *J.* 2488 (1966) [7, 3079 (1965)]
- VODOPYANOV, L. K.
Electrical Properties of Indium Antimonide Irradiated by Neutrons at 77°K and by Electrons at 300°K. (E) L. K. Vodopyanov and N. I. Kurdiani. *J.* 2224 (1966) [7, 2749 (1965)]
- VOLFSON, A. A.
A Study of Photoconductivity in Heavily Doped p-Silicon. (T/E) A. A. Volfson, S. M. Gorodetskii, and V. K. Subashiev. *J.* 53 (1965) [7, 75 (1965)]
- VOLK, T. R.
Phase Transition in Barium Titanate at High Hydrostatic Pressure. (E) G. G. Leonidova and T. R. Volk. *J.* 2694 (1966) [7, 3344 (1965)]
- VOLKENSHTEIN, N. V.
Specific Heat of 0.5% Solutions of Cr, Mn, Fe, and Ni in Platinum. (E/T) Yu. N. Tselovkin and N. V. Volkenstein. *J.* 432 (1965) [7, 543 (1965)]
- VOLKENSHTEIN, N. V.
Thermal Conductivity of Holmium and Erbium from 2 to 100°K. (E) N. G. Aliev and N. V. Volkenstein. *J.* 2068 (1966) [7, 2560 (1965)]
- VOLKENSHTEIN, N. V.
Hall Effect in Neodymium and Samarium. (E) N. V. Volkenstein and G. V. Fedorov. *J.* 2599 (1966) [7, 3213 (1965)]
- VOLKOV, A. F.
A Contribution to the Theory of Spin Absorption by Donor Electrons in Semiconductors. (T) A. F. Volkov. *J.* 1304 (1965) [7, 1612 (1965)]
- VOLKOV, A. S.
Investigation of the Nonequilibrium Carrier Lifetime and Noise in p-Type InSb. (E/T) A. D. Berkuliev, A. S. Volkov, V. V. Galavanov, and D. N. Nasledov. *J.* 1545 (1965) [7, 1908 (1965)]
- VOLKOV, B. A.
Influence of an Electric Field on the Position of the Optical Absorption "Edge" in Polycrystalline Films of CdS . (E/T) K. I. Britsyan, B. A. Volkov, V. V. Matveev, and A. A. Smirnov. *J.* 2044 (1966) [7, 2536 (1965)]
- VOLKOV, B. A.
Influence of the Concentration of Donors and Acceptors on the Electrical Conductivity of Heavily Doped n-Type Silicon. (E) N. A. Penin, B. G. Zhurkin, and B. A. Volkov. *J.* 2580 (1966) [7, 3188 (1965)]
- VOLKOVA, N. V.
Electrical Resistance Anomaly in the Region of the Compensation Temperature in the Ferrite $NiFe_{1-x}Mn_xO_4$. (E/T) K. P. Belov, A. N. Goryaga, and N. V. Volkova. *J.* 378 (1965) [7, 474 (1965)]
- VOROB'EV, G. A.
Effect of Cathode Material on the Electrical Strength of a Solid Dielectric. (E) G. A. Vorob'ev and L. G. Nekrasova. *J.* 800 (1965) [7, 995 (1965)]
- VOROB'EV, L. E.
Change in the Transparency of p-Type Germanium in Strong Electric Fields. (E) L. E. Vorob'ev, L. P. Mizgireva, U. B. Solntanov, V. I. Stafeev, and A. V. Shuridin. *J.* 2740 (1966) [7, 3404 (1965)]
- VOROB'EV, Yu. V.
Investigation of the Photoconductivity of Cu_2O in the Temperature Range from +20 to +150°C. (E/T) Yu. V. Vorob'ev and Yu. I. Karkhanin. *J.* 1500 (1965) [7, 1865 (1965)]
- VORON'KO, Yu. K.
Optical Properties of CaF_2-Dy^{3+} Crystals. (E) Yu. K. Voron'ko, V. V. Osiko, V. T. Udovenchik, and M. M. Farsikov. *J.* 204 (1965) [7, 267 (1965)]
- VORONKOV, V. V.
Instability of Crystallization in the Presence of Intense Heat Fluxes. (T) V. V. Voronkov. *J.* 714 (1965) [7, 899 (1965)]
- VORONKOVA, N. M.
Concerning the Role of Trapping Levels in the Photoconductivity of GaAs. (E) N. M. Voronkova and D. N. Nasledov. *J.* 2050 (1966) [7, 2542 (1965)]
- VUL, B. M.
Superconductivity in Semiconductors. (T) B. M. Vul and A. S. Selivanenko. *J.* 1510 (1965) [7, 1876 (1965)]

- YAKIMENKO, L. F.
Texture in Layers of Gases Condensed on a Cold Substrate. (E)
A. S. Bulakov, V. S. Kogan, and L. F. Yakimenko. *J.* 679 (1965)
[7, 852 (1965)]
- YASSIEVICH, I. N.
Anomalous Hall and Nernst Effects in Metals Containing Paramagnetic Additions. (T) L. F. Gurevich and I. N. Yassievich. *J.* 462 (1965) [7, 582 (1965)]
- YASTREBINSKII, A. A.
Variation of Small-Angle X-Ray Diffraction Intensity During Contrasting of Polymers. (E) V. A. Marikhin, A. I. Slutsker, and A. A. Yastrebinskii. *J.* 352 (1965) [7, 441 (1965)]
- YUABOV, Yu. M.
Narrow-Band-Gap Semiconductor Films which Develop Photovoltages up to 5000 V. (E) E. I. Adirovich, T. Mirzakhmudov, V. M. Rubinov, and Yu. M. Yuabov. *J.* 2646 (1966) [7, 3652 (1965)]
- YUDIN, D. M.
An EPR Study of Glasses Containing Chromium. (T) V. K. Zakharov and D. M. Yudin. *J.* 1267 (1965) [7, 1571 (1965)]
- YUDIN, D. M.
Determination of the Type of Radiation Traps in Glasses. (E) D. M. Yudin. *J.* 1399 (1965) [7, 1733 (1965)]
- YUDIN, V. M.
Weak Ferromagnetism of CaMnO_3 . (E) V. M. Yudin, A. I. Gavrilishina, M. V. Artem'eva, and M. F. Bryzhina. *J.* 1856 (1966) [7, 2292 (1966)]
- YUDIN, V. M.
Paramagnetic Susceptibility of PrAlO_3 . (T/E) V. M. Yudin and A. I. Gavrilishina. *J.* 2772 (1966) [7, 3435 (1965)]
- YUGOVA, T. G.
Investigation of the Infrared Absorption Spectrum of n-Type Gallium Arsenide. (E) M. G. Mil'vidskii, V. B. Ovenskii, E. P. Rashevskaya, and T. G. Yugova. *J.* 2784 (1966) [7, 3448 (1965)]
- YUGOVA, T. G.
Dislocation Decoration in Gallium Arsenide Crystals. (E) M. G. Mil'vidskii, V. B. Ovenskii, and T. G. Yugova. *J.* 2791 (1966) [7, 3454 (1965)]
- YUKHNEVICH, A. V.
The Structure of the Spectrum of the Radiative Capture of Holes by A-Centers in Silicon. (E) A. V. Yukhnovich. *J.* 259 (1965) [7, 322 (1965)]
- YUKHNEVICH, A. V.
Radiative Recombination in Silicon Containing Radiation-Induced Defects. (E) A. V. Yukhnovich and V. D. Tkachev. *J.* 2746 (1966) [7, 3410 (1965)]
- YUNOVICH, A. E.
Coherent Radiation of GaAs p-n Junctions Prepared by the Diffusion of Beryllium. (E) E. A. Poltoratskii, V. M. Stuchebnikov, and A. E. Yunovich. *J.* 1798 (1966) [7, 2231 (1965)]
- YUNOVICH, A. E.
Some Electrical Properties of Semi-Insulating Gallium Arsenide. (E) Arun P. Kul'sreshtha and A. E. Yunovich. *J.* 2058 (1966) [7, 2549 (1965)]
- YURASOVA, V. E.
Preparation of Thin Intermetallic Compound Films by the Cathode Sputtering Method. (E) V. E. Yurasova, L. N. Levykina, and V. M. Eremenkova. *J.* 2332 (1966) [7, 2875 (1965)]
- YURKOV, B. Ya.
Applicability of the Approximation of Continuous Energy Losses by Electrons in the Moderate Energy Range. (T/E) B. Ya. Yurkov. *J.* 2742 (1966) [7, 3406 (1965)]
- YUROVA, E. S.
Recombination of Nonequilibrium Charge Carriers at Cadmium Ions in Germanium. (E/T) M. I. Iglitayn and E. S. Yurova. *J.* 723 (1965) [7, 912 (1965)]
- YURTSENYUK, S. P.
Optical Absorption and Structure of Energy Bands in $\text{CdS}_x\text{-CdSe}_{1-x}$ Crystals. (E/T) M. S. Brodin, M. V. Kurik, and S. P. Yurtsenyuk. *J.* 2516 (1966) [7, 3112 (1965)]
- ZABLOTSKII, G. A.
Investigation of Ferrite Garnet Crystals Containing Vanadium. (E) A. N. Ageev, M. M. Venediktova, G. A. Zablotskii, I. E. Myl'nikova, N. V. Pisarev, and O. B. Proskaryakov. *J.* 2310 (1966) [7, 2853 (1965)]
- ZAGONYACH, Yu. I.
Tenseffect in Filamentary Single Crystals of Silicon, Grown from the Gaseous Phase. (E) A. V. Sandulova, I. I. Mar'yamova, and Yu. I. Zagonyach. *J.* 1277 (1965) [7, 1581 (1965)]
- ZAGRUBSKII, A. A.
Excitation of the Fluorescence of Zinc Oxide by "Hot" Photoelectrons Generated by Vacuum Ultraviolet Radiation. (E) F. I. Vilesov, A. A. Zagrubskii, and Ya. M. Zelikin. *J.* 1800 (1966) [7, 2232 (1965)]
- ZAITOV, F. N.
Influence of Some Structural Factors on the Thermal Stability of Color Centers in Alkali-Halide Crystal Phosphors. (E/T) V. I. Sidlyarenko, F. N. Zaitov, and Yu. L. Lukantsever. *J.* 2664 (1966) [7, 3302 (1965)]
- ZAITSEVA, M. A.
The Electrical Properties of Yttrium Ferrites Having a Garnet Structure. (E/T) K. P. Belov, M. A. Zaitseva, A. N. Kadomtseva, and T. L. Ovchinnikova. *J.* 381 (1965) [7, 477 (1965)]
- ZAKHARCHENYA, B. P.
Zeeman Splitting of the Radiation Line $\lambda_{\text{H}} = 2.36 \mu$ in the Spectrum of a $\text{CaF}_2\text{-Dy}^{3+}$ Crystal. (E) B. P. Zakharchenya, A. V. Varfolomeev, and I. B. Rusanov. *J.* 1150 (1965) [7, 1428 (1965)]
- ZAKHAROV, V. K.
An EPR Study of Glasses Containing Chromium. (T) V. K. Zakharov and D. M. Yudin. *J.* 1267 (1965) [7, 1571 (1965)]
- ZAKHAROV, Yu. P.
GaAs p-n Junction Laser with Nonuniform Distribution of Injection Current. (E) N. G. Basov, Yu. P. Zakharov, V. V. Nikitin, and A. A. Sheronov. *J.* 2532 (1966) [7, 3128 (1965)]
- ZAKHAROV, Yu. P.
Interaction of Optically Coupled GaAs p-n Junction Lasers. (E) N. G. Basov, Yu. P. Zakharov, V. V. Nikitin, and A. A. Sheronov. *J.* 2796 (1966) [7, 3460 (1965)]
- ZAKHAROVA, M. V.
The Strength of Cadmium and Zinc Whiskers. (E/T) A. A. Predvoditelev and M. V. Zakharova. *J.* 306 (1965) [7, 379 (1965)]
- ZARIPOV, M. M.
Electron Paramagnetic Resonance of Iron Group Ions in NH_4Cl Single Crystals. (E) M. M. Zariпов and G. K. Chirkina. *J.* 74 (1965) [7, 100 (1965)]
- ZARIPOV, M. M.
EPR Spectra and Coordination Structure of Paramagnetic Ions in NH_4Cl . (E/T) M. M. Zariпов and G. K. Chirkina. *J.* 2391 (1966) [7, 2947 (1965)]
- ZARIPOV, M. M.
EPR and Second-Order Phase Transitions in NH_4Cl . (E) M. M. Zariпов and G. K. Chirkina. *J.* 2744 (1966) [7, 3409 (1965)]
- ZARIPOV, M. M.
Electron Paramagnetic Resonance of Terbium in CeO_2 . (E) Yu. S. Greznov, M. M. Zariпов, and V. G. Stepanov. *J.* 2937 (1966) [7, 3644 (1965)]
- ZARIPOV, M. M.
Comment on the Paper "An EPR Study of Glasses Containing Chromium." (T) M. M. Zariпов. *J.* 2960 (1966) [7, 3668 (1965)]
- ZARIPOV, M. M.
Investigation of EPR of Mn^{2+} Ions in Single Crystals of ZnMgO_2 . (E) V. F. Dornov-Pegarev, M. M. Zariпов, M. I. Samoilovich, and V. G. Stepanov. *J.* 2983 (1966) [7, 3688 (1965)]
- ZARUTSKII, E. M.
Transmission of Alkali-Metal Ions Through Thin Films. (E/T) E. M. Zarutskii. *J.* 518 (1965) [7, 650 (1965)]

- ZASLAVSKII, A. I.**
X-Ray and Optical Investigations of $GaAs_{1-x}P_x$ Crystals. (E) S. A. Abagyan, S. M. Gorodetski, T. B. Zhukova, A. I. Zaslavskii, A. V. Lishina, and V. K. Subashiev. *J.* 153 (1965) [7, 200 (1965)]
- ZASLAVSKII, A. I.**
Thermal Conductivity of Solid Solutions Based on Bismuth Telluride. (E) E. A. Gorieva, A. I. Zaslavskii, V. A. Kutsov, and I. A. Smirnov. *J.* 978 (1965) [7, 1221 (1965)]
- ZAVADSKI, E. A.**
Galvanomagnetic Effects in Semiconductors with an Inhomogeneous Impurity Distribution. (T/E) E. A. Zavadskii, Yu. T. Kovrizhnykh, and I. G. Fakidov. *J.* 2890 (1966) [7, 3582 (1965)]
- ZAVARITSKAYA, E. I.**
Electric Discharge in Thin Layers of Germanium at Helium Temperatures. (E) E. I. Zavaritskaya. *J.* 1983 (1966) [7, 2459 (1965)]
- ZAVT, G. S.**
The Theory of Vibrations of Impure NaCl-Type Ionic Crystals. Localized Vibrations. (T) G. S. Zavit. *J.* 1698 (1966) [7, 2109 (1965)]
- ZAVT, G. S.**
Theory of the Infrared-Absorption Band Width of U-Centers. (T) G. S. Zavit, N. N. Kristofel', and V. V. Khizhnyakov. *J.* 1973 (1966) [7, 2444 (1965)]
- ZELENKOVA, I. E.**
Antiferroelectric Properties of Lead Orthovanadate. (E) V. A. Isupov, N. N. Krainik, I. D. Fridberg, and I. E. Zelenkova. *J.* 844 (1965) [7, 1051 (1965)]
- ZELIKIN, Ya. M.**
Excitation of the Fluorescence of Zinc Oxide by "Hot" Photoelectrons Generated by Vacuum Ultraviolet Radiation. (E) F. I. Vilesov, A. A. Zagrebukii, and Ya. M. Zelikin. *J.* 1800 (1966) [7, 2232 (1965)]
- ZHADKO, I. P.**
Anisotropy of the Electrical and Photoelectric Properties of In_2Se_3 . (T/E) I. P. Zhadko, E. I. Raabha, V. A. Romanov, I. M. Stakhira, and K. D. Tovatyuk. *J.* 1432 (1965) [7, 1777 (1965)]
- ZHADKO, I. P.**
Formation of Nonequilibrium Carriers when a Current Passes Through Elastically Deformed Germanium. (E) I. I. Boiko, I. P. Zhadko, E. I. Raabha, and V. A. Romanov. *J.* 1806 (1966) [7, 2239 (1965)]
- ZHDANOVA, V. V.**
Dilatometric Study of Solid Solutions in the System $BiFeO_3-PbFe_{1/2}Nb_{1/2}O_3$. (E) V. V. Zhdanova. *J.* 108 (1965) [7, 143 (1965)]
- ZHDANOVA, V. V.**
 C_p-C_v for Ge Containing Various Admixture of Electrically Active Impurities. (E) V. V. Zhdanova and T. A. Kontorova. *J.* 1281 (1965) [7, 1584 (1965)]
- ZHDANOVA, V. V.**
Thermal Expansion of Doped Germanium. (E) V. V. Zhdanova and T. A. Kontorova. *J.* 3685 (1966) [7, 3331 (1965)]
- ZHELNOV, B. L.**
Pulsation of Stimulated Emission from Solids. (T) B. L. Zhelnov, A. P. Kazantsev, V. L. Kolpashchikov, and V. S. Smirnov. *J.* 1416 (1965) [7, 1756 (1965)]
- ZHELNOV, B. L.**
Stimulated Traveling-Wave Radiation in Lasers. (T) B. L. Zhelnov, A. P. Kazantsev, and V. S. Smirnov. *J.* 2276 (1966) [7, 2816 (1965)]
- ZHELNUDEV, I. S.**
Long-Wavelength Infrared Transmission Spectra of $NH_4H_2PO_4$. (E) I. M. Aref'ev, P. A. Bazhulin, and I. S. Zheludev. *J.* 2290 (1966) [7, 2834 (1965)]
- ZHEVAGO, S. E.**
Study of Magnetoacoustic Effects in Gallium at 210 Mc. (E) P. A. Bezuglyi, A. A. Galkin, and S. E. Zhevago. *J.* 383 (1965) [7, 480 (1965)]
- ZHILICH, A. G.**
The Dielectric Constant and the Magnetic Field Inversion Effect in the Exciton Absorption Range of CdS. (T) A. G. Zhilich. *J.* 538 (1965) [7, 670 (1965)]
- ZHIRNOV, A. A.**
Transverse Hall Effect and Magnetoresistivity of Ge in Strong Magnetic Fields. (E) V. N. Lutskii, A. A. Zhirnov, and M. I. Elinson. *J.* 415 (1965) [7, 521 (1965)]
- ZHITNIKOV, R. A.**
Paramagnetic Resonance of Free Atoms of the Alkali Metals Na, K, and Rb, Stabilized in a Molecular Matrix at Liquid-Nitrogen Temperatures. (E) R. A. Zhitnikov and N. V. Kolesnikov. *J.* 927 (1965) [7, 1157 (1965)]
- ZHITNIKOV, R. A.**
Maximum Temperatures for the Stability Retention of Free Atoms Captured in Various Media at Liquid-Nitrogen Temperatures. (E) R. A. Zhitnikov and N. V. Kolesnikov. *J.* 1021 (1965) [7, 1263 (1965)]
- ZHITNIKOV, R. A.**
Hyperfine Structure of the Paramagnetic Resonance Spectra of Free Ag, Au, and Cu Atoms Stabilized in a Matrix of Benzene at Liquid-Nitrogen Temperatures. (E) R. A. Zhitnikov and N. V. Kolesnikov. *J.* 1382 (1965) [7, 1710 (1965)]
- ZHITNIKOV, R. A.**
Paramagnetic Resonance of Free Silver Atoms Formed in Frozen Solutions of Silver Salts Irradiated at 77°K. (E) R. A. Zhitnikov and A. L. Orbell. *J.* 1539 (1966) [7, 1926 (1965)]
- ZHITNIKOV, R. A.**
Paramagnetic Resonance of Hydrogen Atoms Formed in Frozen Acids Irradiated at 77°K. (E) R. A. Zhitnikov and A. L. Orbell. *J.* 2843 (1966) [7, 3522 (1965)]
- ZHUKHOVITSKII, A. A.**
The Influence of Oxide Films on the Sublimation Kinetics. (T/E) M. B. Bronfin, A. A. Zhukhovitskii, and V. A. Marichev. *J.* 2107 (1966) [7, 2603 (1965)]
- ZHUKOVA, T. B.**
X-Ray and Optical Investigations of $GaAs_{1-x}P_x$ Crystals. (E) S. A. Abagyan, S. M. Gorodetski, T. B. Zhukova, A. I. Zaslavskii, A. V. Lishina, and V. K. Subashiev. *J.* 153 (1965) [7, 200 (1965)]
- ZHURKIN, B. G.**
Influence of the Concentration of Donors and Acceptors on the Electrical Conductivity of Heavily Doped n-Type Silicon. (E) N. A. Penin, B. G. Zhurkin, and B. A. Volkov. *J.* 2580 (1966) [7, 3188 (1965)]
- ZHURKIN, B. G.**
Influence of Compensation on the Exchange Interaction of Donors in Heavily Doped n-Type Silicon. (E) B. G. Zhurkin and N. A. Penin. *J.* 2592 (1966) [7, 3204 (1965)]
- ZHURKOV, I. S.**
Possible Effect of Quasilocal Lattice Vibrations on the Infrared Absorption and Thermal Conductivity of KCl-H Crystals. (E) D. N. Mirin, V. S. Oskotskii, I. I. Reshina, I. A. Smirnov, V. V. Tikhonov, and I. S. Zhurkov. *J.* 2433 (1966) [7, 3003 (1965)]
- ZHUZE, V. P.**
Change in Electrical Conductivity and Thermoelectromotive Force of In_2Te_3 and Ga_2Te_3 Upon Melting. (E) V. P. Zhuze and A. I. Shelykh. *J.* 942 (1965) [7, 1175 (1965)]
- ZHUZE, V. P.**
Transport Mechanism in Samarium Sulfide. (E/T) A. V. Golubkov, E. V. Goncharova, V. P. Zhuze, and I. G. Manolova. *J.* 1963 (1966) [7, 2430 (1965)]
- ZIL'BERMAN, P. E.**
Resonance Amplification of Ultrasonic Rayleigh Waves by a Beam of Charged Particles Passing Near the Surface of a Crystal. (T) Yu. V. Gulyaev and P. E. Zil'berman. *J.* 2243 (1966) [7, 2773 (1965)]
- ZILING, K. K.**
Creep Characteristics of Filamentary Crystals. (E) A. V. Serebryakov, V. G. Kostyuk, and K. K. Ziling. *J.* 684 (1965) [7, 858 (1965)]

- ZILING, K. K.
Behavior of Filamentary Crystals at Temperatures Close to the Melting Point. (E) K. K. Ziling. *J.* 701 (1965) [*J.* 881 (1965)]
- ZIMKINA, T. M.
Photoionization Absorption in Alkali Halide Crystals in the Range 23-190 Å. (E) T. M. Zimkina and A. P. Lukirskii. *J.* 1179 (1965) [*J.* 1455 (1965)]
- ZIMKINA, T. M.
Fine Structure of the I_{III-II} Absorption Spectra of Cl in the Compounds LiCl, NaCl, KCl, RbCl, and CsCl. (E) T. M. Zimkina and A. P. Lukirskii. *J.* 1175 (1965) [*J.* 1462 (1965)]
- ZIMOGOROVA, N. S.
Some Photoelectric Properties of Gallium Phosphide-Gallium Arsenide p-n Heterojunctions. (E) Zh. I. Aiferov, N. S. Zimogorova, M. K. Trukan, and V. M. Tuchkevich. *J.* 999 (1965) [*J.* 1235 (1965)]
- ZINGERMAN, Ya. P.
Investigation of the Interaction of Oxygen with Tungsten by the Method of Electron-Stimulated Desorption. (T/E) Ya. P. Zingerman and V. A. Ishchuk. *J.* 173 (1965) [*J.* 227 (1965)]
- ZINGERMAN, Ya. P.
Some Characteristics of the Interaction of Oxygen with the Surface of a Tungsten Single Crystal. (E) Ya. P. Zingerman, V. A. Ishchuk, and T. A. Krutillina. *J.* 2078 (1966) [*J.* 2569 (1965)]
- ZONN, Z. N.
EPR Spectra of the Gd^{3+} Ion in Single Crystals of CeO_2 . (E) I. V. Vinokurov, Z. N. Zonn, and V. A. Ioffe. *J.* 814 (1965) [*J.* 1012 (1965)]
- ZORIN, E. I.
The Electrical Conductivity of Inversion Layers Formed in n-Silicon by Bombardment with Boron Ions. (T) P. V. Pavlov, E. I. Zorin, D. I. Tetel'baum, and E. K. Granitsyna. *J.* 2386 (1966) [*J.* 2940 (1965)]
- ZORINA, E. L.
Absorption of Light in Glassy As_2S_3 and As_2S_3 at the Fundamental Band Edge. (E/T) E. L. Zorina. *J.* 269 (1965) [*J.* 331 (1965)]
- ZUBAREV, D. N.
Statistical Theory of Nuclear Spin Diffusion. (T) L. L. Baishvili and D. N. Zubarev. *J.* 580 (1965) [*J.* 722 (1965)]
- ZUBAREV, I. G.
Laser Action in CdS Induced by Two-Photon Optical Excitation from a Ruby Laser. (E) N. G. Basov, A. Z. Grasyuk, I. G. Zubarev, and V. A. Kaulina. *J.* 2932 (1966) [*J.* 3639 (1965)]
- ZUEV, L. B.
The Interaction of a Crack with Dislocation Boundaries. (E) V. M. Finkel', A. M. Savel'ev, L. B. Zuev, S. V. Serebryakov, Yu. M. Korobov, and I. B. Zueva. *J.* 1130 (1965) [*J.* 1402 (1965)]
- ZUEVA, I. B.
The Interaction of a Crack with Dislocation Boundaries. (E) V. M. Finkel', A. M. Savel'ev, L. B. Zuev, S. V. Serebryakov, Yu. M. Korobov, and I. B. Zueva. *J.* 1130 (1965) [*J.* 1402 (1965)]
- ZVEZDIN, A. K.
Transport Phenomena in n-Type InSb in the Case of Inelastic Polar Scattering of Electrons. (T/E) G. I. Guseva and A. K. Zvezdin. *J.* 1513 (1965) [*J.* 1879 (1965)]
- ZVEZDIN, V. K.
Spectrum of Spin Waves in Ferro-Antiferromagnets. (T) A. I. Mitsek and V. K. Zvezdin. *J.* 848 (1965) [*J.* 1057 (1965)]
- ZVYAGIN, A. I.
Infrared Absorption Spectra of Antiferromagnetic Crystals of the $CoF_{1(1-x)}MnF_{1x}$ System. (E) A. I. Zvyagin, V. V. Eremenko, and V. I. Kul'ko. *J.* 2505 (1966) [*J.* 3102 (1965)]
- ZVYAGIN, I. P.
Calculation of the Hall Constant in Weak Magnetic Fields in the Presence of Impurity Scattering. (T) I. P. Zvyagin. *J.* 779 (1965) [*J.* 966 (1965)]
- ZYRYANOV, P. S.
Theory of Dissipationless Electron Currents in a Quantizing Magnetic Field. (T) P. S. Zyryanov and V. I. Okulov. *J.* 1411 (1965) [*J.* 1749 (1965)]
- ZYRYANOV, V. G.
Investigation of the Valence Band in Alkali Chloride Crystals from X-Ray Emission Spectra. (E) É. E. Vainshtein, L. N. Mazalov, and V. G. Zyryanov. *J.* 882 (1965) [*J.* 1099 (1965)]

SUBJECT INDEX

SOVIET PHYSICS-SOLID STATE

Volume 7, 1965

A translation of *Fizika Tverdogo Tela*

Acoustical Properties and Effects

Band Structure and Theory

Chemical Physics

Crystals and Crystal Structure

Deformation

Dielectric Materials, Properties, and Effects

Diffusion

Dislocations

Elasticity and Plasticity

Electrical Conductivity

Electrical Properties and Effects

Electromagnetic Waves

Electron Beams

Electron Emission and Absorption

Ferroelectric Materials and Properties

Ferromagnetic and Ferrimagnetic Materials, Properties, and Effects

Field Theory

Films, Thin

Friction

Gamma Rays and Gamma Quanta

Glass

Hall Effect and Nernst Effect

Instrumentation

Ions and Ionic Crystals

Irradiation Effects

Isotopes

Magnetic Properties, Effects, and Materials

Masers and Lasers

Mathematical Physics

Metallurgy

Optical Properties, Effects and Techniques

Photoconductivity

Photoelectric Properties and Effects

Photoemission

Photomagnetic Properties and Effects

Photomechanical Effects

Piezoelectric Materials, Properties, and Effects

Piezomagnetic Properties

Plasmas

Polymers

Quantum Mechanics

Recombination

Resonance

Scattering

Semiconductor Metallurgy

Semiconductor Theory

Spectra

Superconductivity

Surface Properties

Thermal Properties and Effects

Thermodynamics and Statistical Mechanics

Thermoelectric Properties and Effects

Thermomagnetic Phenomena

Vacuum Technology

X Rays

Acoustical Properties and Effects

Dependence of the Coefficient of Absorption of Ultrasound in Cadmium Sulfide Crystals on the Illumination. (E/T) A. I. Morozov. *Z.* 261 (1965) [Z. 324 (1965)]

Study of Magnetoacoustic Effects in Gallium at 210 Mc. (E) P. A. Bezuglyi, A. A. Galkin, and S. E. Zhevago. *Z.* 383 (1965) [Z. 480 (1965)]

Amplification of Longitudinal Ultrasonic Waves in a Single Crystal of CdS. (E/T) D. N. Astrov, V. I. Baibakov, G. S. Pado, and L. A. Sysoev. *Z.* 524 (1965) [Z. 655 (1965)]

The Theory of Amplification and Generation of Ultrasound in Semiconductors. (T) E. M. Épshtein. *Z.* 688 (1965) [Z. 862 (1965)]

Generation-Recombination Noise in an InSb Photoresistor. (T/E) N. N. Kolachevskii and Rozhdestvenskii. *Z.* 898 (1965) [Z. 1119 (1965)]

Time Dependence of Equilibrium Magnetization of Nuclear Spin Systems Under the Influence of Ultrasound. (E/T) A. M. Sazanov and S. B. Grigor'ev. *Z.* 1120 (1965) [Z. 1389 (1965)]

Absorption of Ultrasound in Metals. (T) Yu. A. Kashlev. *Z.* 1543 (1965) [Z. 1906 (1965)]

Phonon Frequencies Along the [100] Direction in the Nickel Lattice. (E/T) E. Z. Vinitskii and V. V. Gorbachev. *Z.* 1547 (1965) [Z. 1910 (1965)]

Effect of the Spectral Composition of Illumination on the Amplification of Ultrasound in Cadmium Sulfide. (E/T) S. G. Kalashnikov, A. I. Morozov, B. A. Stankovskii, and L. A. Sysoev. *Z.* 1782 (1965) [Z. 2215 (1965)]

Theory of the Electroacoustic Effect in Semiconductors of the n-Ge and n-Si Types. (T) S. V. Gantsevich and V. L. Gurevich. *Z.* 1939 (1966) [Z. 2400 (1965)]

Amplification Factor and Saturation Effect in Semiconductors with Homogeneous Excitation. (T) O. N. Krokhin. *Z.* 2114 (1966) [Z. 2612 (1965)]

Resonance Amplification of Ultrasonic Rayleigh Waves by a Beam of Charged Particles Passing Near the Surface of a Crystal. (T) Yu. V. Gulyaev and P. E. Zil'berman. *Z.* 2243 (1966) [Z. 2772 (1965)]

Effect of Ultrasonic Excitation on the Nuclear Magnetization of a Paramagnet. (T) S. B. Grigor'ev and A. M. Sazonov. *J.* 2334 [7, 2877 (1965)]

Investigation of the Acoustoelectric Effect in Cadmium Sulfide Crystals. (E) A. I. Morozov. *J.* 2482 (1966) [7, 3070 (1965)]

Theory of Sound Amplification in Piezoelectrics by a Beam of Charged Particles. (T) F. G. Bass, S. A. Gredeskul, and M. I. Kaganov. *J.* 2496 (1966) [7, 3090 (1965)]

Theory of Sound Generation in Piezoelectric Semiconductors. (T) V. L. Gurevich and B. D. Laikhtman. *J.* 2603 (1966) [7, 3218 (1965)]

Theory of Many-Phonon Nonradiative Transitions in Local Paramagnetic Centers. (T) B. S. Tsurkerbiat and Yu. E. Perlin. *J.* 2647 (1966) [7, 3278 (1965)]

Second Sound in Solids. (T) R. N. Gurskii. *J.* 2838 (1966) [7, 3515 (1965)]

The Effect of Electron Collision with the Specimen Boundaries on Ultrasonic Absorption in a Metal. (T) V. M. Nabutovskii. *J.* 2897 (1966) [7, 3591 (1965)]

Influence of an Electric Field on the Frequency Dependence of the Generation-Recombination Noise in Boron-Doped Silicon. (E) É. É. Godik and M. I. Molchanov. *J.* 2958 (1966) [7, 3664 (1965)]

Ferroacoustic Resonance for Longitudinal Ultrasonic Waves. (E) G. A. Smolenakii and A. Naayrov. *J.* 3002 (1966) [7, 3704 (1965)]

Band Structure and Theory

Effective Electron Mass and Optical Forbidden-Band Width of Indium Arsenide Films. (E/T) S. G. Shul'man and Yu. I. Ukanov. *J.* 768 (1965) [7, 952 (1965)]

Investigation of the Valence Band in Alkali Chloride Crystals from X-Ray Emission Spectra. (E) É. É. Vainshtein, L. N. Mazalov, and V. G. Zyrzanov. *J.* 882 (1965) [7, 1099 (1965)]

System of Quantum-Kinetic Equations for Electrons in Metals with Intersecting Bands. (T) A. I. Semenenko. *J.* 975 (1965) [7, 1216 (1965)]

Concentration Dependence of the Forbidden-Band Width in Alloys of InSb with GaSb. (E) I. S. Baukin, V. I. Ivanov-Omskii, and B. T. Kolomiets. *J.* 1019 (1965) [7, 1261 (1965)]

Formation and Properties of an Impurity Band in n-Type GaAs. (E/T) O. V. Emel'yanenko, T. S. Lagnova, D. N. Nasedov, and G. N. Talalakin. *J.* 1063 (1965) [7, 1315 (1965)]

Concentration-Dependent Shift of the Self-Absorption Edge in Stannic Oxide. (E) V. K. Miloslavskii and S. P. Lyashenko. *J.* 1245 (1965) [7, 1550 (1965)]

Investigation of the Self-Absorption Edge of Boron. (E) Sh. Z. Dzhamigdzhe, R. R. Shvangradze, Yu. A. Mal'tsev, and M. F. Gviliava. *J.* 1259 (1965) [7, 1563 (1965)]

Forbidden-Band Width of Nickel Monoxide. (E) Ya. M. Ksendzov and L. A. Drabkin. *J.* 1519 (1965) [7, 1884 (1965)]

On the Appearance of an α -Band in the Absorption Spectrum of Alkali-Halide Crystals. (T/E) G. A. Rozman. *J.* 1555 (1966) [7, 1921 (1965)]

Structure of the Energy Spectrum of Disordered Solid Solutions in the Two-Band Approximation. (T) G. G. Sergeeva. *J.* 1578 (1966) [7, 1952 (1965)]

On Calculating the Intensities of the Broad Lines in the Ruby Spectrum. (T) B. I. Rezer and V. I. Cherepanov. *J.* 1634 (1966) [7, 2024 (1965)]

Forbidden-Band Width in PbTe. (E) P. M. Starik. *J.* 1812 (1966) [7, 2246 (1965)]

Theory of the Infrared-Absorption Band Width of U-Centers. (T) G. S. Zavit, N. N. Kristofel', and V. V. Khizhnyakov. *J.* 1973 (1966) [7, 2444 (1965)]

Band Model of SnTe. (E/T) B. A. Efimova, V. I. Kaidanov, B. Ya. Molozhes, and I. A. Chernik. *J.* 2032 (1966) [7, 2524 (1965)]

Band Structure of Cuprous Oxide. (T) V. P. Smirnov. *J.* 2312 (1966) [7, 2856 (1965)]

Optical Absorption and Structure of Energy Bands in $\text{CdS}_{1-x}\text{CdSe}_x$ Crystals. (E/T) M. S. Brodin, M. V. Kurik, and S. P. Yuritseniyuk. *J.* 2516 (1966) [7, 3112 (1965)]

Chemical Physics

X-Ray Spectroscopic Investigation of the Valence State of Samarium in the Metal and in Its Monosulfide. (E) S. M. Blokhin, É. É. Vainshtein, and V. M. Bertenev. *J.* 2870 (1966) [7, 3558 (1965)]

Crystals and Crystal Structure

Martensite-Type Polymorphic Transformation in Octahydroanthracene Crystals. (E) V. N. Vashlev and A. F. Prikhot'ko. *J.* 29 (1965) [7, 42 (1965)]

Flotation Study of the Distribution of Singly Charged Impurity Ions in the Growth of NaCl Single Crystals. (E) G. A. Andreev and B. P. Aleksandrov. *J.* 135 (1965) [7, 177 (1965)]

Influence of Impurity Anions Containing Oxygen on the Density of NaCl and KCl Single Crystals. (E) G. A. Andreev. *J.* 140 (1965) [7, 183 (1965)]

X-Ray and Optical Investigations of $\text{GaAs}_{1-x}\text{P}_x$ Crystals. (E) S. A. Abagyan, S. M. Gorodetskii, T. B. Zhukova, A. I. Zaslavskii, A. V. Lishina, and V. K. Subashiev. *J.* 153 (1965) [7, 200 (1965)]

The Effect of Oxygen Impurity on the Optical Properties of CaF_2 -Sm Crystals. (E) L. V. Krovova, V. V. Oskio, and V. T. Udovchik. *J.* 181 (1965) [7, 238 (1965)]

The Equilibrium Concentration of F-Centers in Additively Colored Alkali-Halide Crystals. (T/E) A. S. Shibanov. *J.* 249 (1965) [7, 312 (1965)]

Theory of the Mössbauer Effect in Nonideal Crystals. (T/E) I. P. Dzyub. *J.* 300 (1965) [7, 372 (1965)]

The Strength of Cadmium and Zinc Whiskers. (E/T) A. A. Predvoditelev and M. V. Zakharova. *J.* 305 (1965) [7, 379 (1965)]

Direct Observation of the Reestablishment of Contacts Between Fragments of a Tungsten Microcrystal. (E) R. I. Garber, Zh. I. Dranova, and I. M. Mikhailovskii. *J.* 395 (1965) [7, 496 (1965)]

Influence of Metal Crystal Structures on the Scattering of Slow Positive Ions. (E) V. I. Veksler. *J.* 500 (1965) [7, 629 (1965)]

Comparison of the Strength of Lithium Fluoride "Whiskers" and "Spinnings." (E) A. A. Shpani and V. Ya. Fridman. *J.* 517 (1965) [7, 649 (1965)]

Appearance of Cross Relaxation and the Spectrum of Exchange-Coupled Ion Pairs in Paramagnetic Crystals. (T/E) I. D. Mash and M. I. Rodak. *J.* 578 (1965) [7, 717 (1965)]

Creech Characteristics of Filamentary Crystals. (E) A. V. Serebryakov, V. G. Kostyuk, and K. K. Zilling. *J.* 684 (1965) [7, 858 (1965)]

Behavior of Filamentary Crystals at Temperatures Close to the Melting Point. (E) K. K. Zilling. *J.* 701 (1965) [7, 881 (1965)]

On the Possibility of Reducing the Dynamic Problem of a Diatomic Lattice to a Dynamic Problem of a Monatomic Lattice. (T) Ya. A. Iosilevskii. *J.* 704 (1965) [7, 885 (1965)]

Spin-Lattice Relaxation and Phonon Heating in Nickel Fluorosilicate. (E) R. M. Valishev. *J.* 733 (1965) [7, 921 (1965)]

Phase Transition in Naphthalene Single Crystals. (E) A. F. Prikhot'ko and A. F. Skorobogat'ko. *J.* 1017 (1965) [7, 1259 (1965)]

Impact Ionization in Silicon Carbide. (E/T) I. K. Vereshchagin and A. S. Kirichuk. *J.* 1027 (1965) [7, 1269 (1965)]

Determination of Distribution Coefficients from Data on Directional Crystallization. (T) A. N. Kirgintsev and E. G. Avvakumov. *J.* 1279 (1965) [7, 1583 (1965)]

Some Peculiarities of the Focusing of Atomic Collisions in Cathode Sputtering from Tungsten and Molybdenum Single Crystals. (E) R. A. Ashmanskii, M. B. Ben'yaminovich, and V. I. Veksler. *J.* 1314 (1965) [7, 1623 (1965)]

Distribution of Divalent Impurities During the Growth of NaCl Single Crystals. (E) G. A. Andreev. *J.* 1339 (1965) [7, 1653 (1965)]

Certain Properties of HgTe Single Crystals Grown from the Melt.

(E) E. Cruceanu, D. Niculescu, N. Nistor, I. Stamatescu, and S. Ionescu-Bujor. *J.* 1456 (1965) [*J.* 1808 (1965)]

Distribution of Singly Charged Ion Impurities in the Growth of KCl and KBr Single Crystals.

(E) G. A. Andreev. *J.* 1517 (1965) [*J.* 1883 (1965)]

Density of Solidified Gases.

(E) A. M. Tolkačev and V. G. Manzheili. *J.* 1711 (1966) [*J.* 2125 (1965)]

Structure of In₂Bi in the Amorphous State.

(E) Ya. I. Dutchak and A. G. Mikolaichuk. *J.* 1780 (1966) [*J.* 2213 (1965)]

Compensation of Divalent Metallic Impurities in Alkali-Halide Crystals.

(E) M. I. Kornfeld and V. V. Lemanov. *J.* 1816 (1966) [*J.* 2249 (1965)]

Influence of Impurities and of Deformation on the Kinetics of Accumulation of F-Centers in KCl Crystals.

(E) L. I. Roachchina and V. P. Klyukina. *J.* 1829 (1966) [*J.* 2262 (1965)]

Phase Diagram of the System Cs₂Rb_{1-x}NO₃.

(E) A. Ya. Dantsiger. *J.* 1845 (1966) [*J.* 2279 (1965)]

Influence of Impurities on the Diffusion of Color Centers in Alkali Halide Crystals.

(T/E) A. S. Shibanov. *J.* 1957 (1966) [*J.* 2423 (1965)]

Influence of the Orientation of GaAs Crystals on the Depth and Photoelectric Properties of Diffused p-n Junctions.

(E) A. A. Gutkin, M. B. Kagan, V. E. Sedov, and Ya. I. Chernov. *J.* 2046 (1966) [*J.* 2538 (1965)]

Pressure Dependence of the Fundamental Absorption Edge of Selenium Single Crystals.

(E/T) V. Yu. Krishchunas, M. P. Mikal'kevichyus, and A. Yu. Shileika. *J.* 2080 (1966) [*J.* 2571 (1965)]

On the Dynamics of Crystals Having the Rutile Structure.

(T) A. I. Gubanov and M. S. Shur. *J.* 2124 (1966) [*J.* 2626 (1965)]

Calculation of the Formation Energy of a Defect Pair in the Crystal Lattice of Rutile.

(T) S. N. Kolkov and M. N. Rozova. *J.* 2166 (1966) [*J.* 2678 (1965)]

Structural Changes in Neutron Irradiated α -Quartz.

(E/T) E. V. Kolontsova and I. V. Telegina. *J.* 2207 (1966) [*J.* 2730 (1965)]

Formation of Pores During Decomposition of Solid Solutions of Divalent Impurities in Sodium Chloride.

(E) M. I. Abaev and M. I. Kornfeld. *J.* 2271 (1966) [*J.* 2809 (1965)]

Structure and Magnetic Properties of TiMnF₃.

(E) S. A. Kizhaev, A. G. Tutov, and V. A. Bokov. *J.* 2325 (1966) [*J.* 2868 (1965)]

Coefficients of Linear Expansion of Sodium Iodide Single Crystals.

(E) R. V. Bakradze, M. B. Kutsykovich, and Yu. I. Shumakov. *J.* 2543 (1966) [*J.* 3138 (1965)]

Inclusion of Crystal Imperfections in the Theory of Spin-Lattice Relaxation.

(T) A. B. Roitsin. *J.* 2566 (1966) [*J.* 3169 (1965)]

Simultaneous Consideration of the Effects of Static Distortion, Short-Range Order, and Thermal Vibrations of Atoms in the Diffuse Scattering of X Rays by Polycrystalline Substitutional Solid Solutions.

(T) S. V. Semenovskaya and A. G. Khachatryan. *J.* 2641 (1966) [*J.* 3270 (1965)]

EPR and Second-Order Phase Transitions in NH₄Cl.

(E) M. M. Zariyov and G. K. Chirkov. *J.* 2744 (1966) [*J.* 3409 (1965)]

Accumulation of F-Centers in Sulfur-Doped KCl.

(E) L. Ya. Melik-Gaikazyan, L. I. Roachchina, and M. I. Ignat'eva. *J.* 2802 (1966) [*J.* 3465 (1965)]

Some Features of the Pulse Polarization Reversal of Internally Polarized Crystals of Triglycine Sulfate.

(E) B. A. Strukov and K. A. Minaeva. *J.* 2887 (1966) [*J.* 3579 (1965)]

Structure and Magnetic Properties of RbMnO₃.

(E) V. A. Bokov, I. E. Myl'nikova, S. A. Kizhaev, M. P. Bryzhina, and N. A. Grigoryan. *J.* 2993 (1966) [*J.* 3695 (1965)]

Deformation

Adiabatic and Isothermal Finite Elastic Deformations of a Solid.

(T) A. A. Nran'yan. *J.* 279 (1965) [*J.* 345 (1965)]

Effect of Plastic Deformation and Quenching on the Paramagnetic Properties of Aluminum.

(T/E) I. Ya. Dekhtyar and R. G. Fedchenko. *J.* 710 (1965) [*J.* 893 (1965)]

Influence of Deformation on the Interimpurity Recombination in Germanium.

(E/T) V. P. Dobrego and S. M. Rytvin. *J.* 770 (1965) [*J.* 954 (1965)]

Relationship Between Dislocation Density and Stresses Resulting from Deformation of LiF Crystals.

(E) B. I. Smirnov and Yu. I. Patrikeev. *J.* 1336 (1965) [*J.* 1649 (1965)]

Time-to-Rupture and Deformation of Polymers at Low Temperatures.

(E) N. N. Peschanakaya and V. A. Stepanov. *J.* 2402 (1966) [*J.* 2962 (1965)]

Low-Frequency Internal Friction in Plastically Deformed Solids.

(E) L. N. Aleksandrov, V. S. Mordyuk, and L. F. Savina. *J.* 2552 (1966) [*J.* 3153 (1965)]

Characteristics of Plastic Deformation in Filamentary Crystals of Copper and Cobalt.

(E) S. Z. Bokstein and I. L. Svetlov. *J.* 2697 (1966) [*J.* 3348 (1965)]

Dielectric Materials, Properties, and Effects

Theory of Long-Wavelength Surface Excitons in Dielectric Materials.

(T) V. M. Agranovich and Yu. V. Konozev. *J.* 83 (1965) [*J.* 111 (1965)]

Nature of Phase Transformations in Solid Solutions of BiFeO₃ with PbFe_{1/2}Nb_{1/2}O₃.

(E) N. N. Krainik, N. P. Khuchua, A. A. Bereznoi, and A. G. Tutov. *J.* 100 (1965) [*J.* 132 (1965)]

Dilatometric Study of Solid Solutions in the System BiFeO₃-PbFe_{1/2}Nb_{1/2}O₃.

(E) V. V. Zhdanova. *J.* 108 (1965) [*J.* 143 (1965)]

New Lead-Containing Perovskites.

(E) Yu. Ya. Tomashpol'skii and Yu. N. Venetsev. *J.* 412 (1965) [*J.* 517 (1965)]

Dielectric Properties of Glasses of the MeO-Al₂O₃-SiO₂ System.

(E) M. D. Mashkovich and N. G. Udovenko. *J.* 417 (1965) [*J.* 524 (1965)]

The Dielectric Constant and the Magnetic Field Inversion Effect in the Exciton Absorption Range of CdS.

(T) A. G. Zhilich. *J.* 538 (1965) [*J.* 670 (1965)]

Effect of Cathode Material on the Electrical Strength of a Solid Dielectric.

(E) G. A. Vorob'ev and L. G. Nekrasova. *J.* 800 (1965) [*J.* 995 (1965)]

On the Nature of the Dielectric Losses in Glasses at UHF.

(E) M. D. Mashkovich and E. N. Smelyanskaya. *J.* 811 (1965) [*J.* 1008 (1965)]

Antiferroelectric Properties of Lead Orthovanadate.

(E) V. A. Isupov, N. N. Krainik, I. D. Fridberg, and I. E. Zelenkova. *J.* 844 (1965) [*J.* 1051 (1965)]

Investigation of Some Inorganic Dielectric Materials in the Far Infrared.

(E) M. D. Mashkovich and A. I. Demeshina. *J.* 1323 (1965) [*J.* 1634 (1965)]

Impedance of a Dielectric Diode with Traps.

(T) T. Yu. Musabekov and V. B. Sandomirskii. *J.* 1366 (1965) [*J.* 1687 (1965)]

Calculation of the Fourth Moment for Nuclear Magnetic Resonance in Ferro-Dielectrics.

(T) L. B. Vatova. *J.* 1717 (1966) [*J.* 2133 (1965)]

Residual Dielectric Effect of the Electroluminescence in ZnS Electrochromic Phosphors.

(E) F. I. Vergunas and K. Sh. Enikeeva. *J.* 1842 (1966) [*J.* 2276 (1965)]

Phase Diagram of the System Ca₂Rb_{1-x}NO₃.

(E) A. Ya. Dantsiger. *J.* 1845 (1966) [*J.* 2279 (1965)]

Investigation of Impulse Breakdown in Solid Dielectrics.

(E) A. V. Baranov, L. G. Nekrasova, and N. I. Dimova. *J.* 2030 (1966) [*J.* 2523 (1965)]

Dielectric Constant in a Two-Band Model of a Semimetal.

(T) E. V. Baklanov and A. V. Chaplik. *J.* 2240 (1966) [*J.* 2768 (1965)]

Influence of Polar Liquid Vapors on the Dielectric Properties of Barium Titanate Single Crystals Containing Additives.

(E) E. P. Gueonok and A. Yu. Kudsin. *J.* 2300 (1966) [*J.* 2845 (1965)]

Diffusion

- Methods for Determining the Isotopic Diffusion Effect in a Solid. (T/E) A. N. Naumov and V. B. Ptashnik. *J.* 543 (1965) [7, 677 (1965)]
- Formation of Diffusion Pores in Self-Diffusion. (T/E) B. Ya. Pines and A. F. Siroenko. *J.* 551 (1965) [7, 687 (1965)]
- Isotopic Effect in the Diffusion of Lithium in Sodium. (E) A. N. Naumov and G. Ya. Ryskin. *J.* 558 (1965) [7, 695 (1965)]
- Statistical Theory of Nuclear Spin Diffusion. (T) L. L. Bulshvili and D. N. Zubarev. *J.* 580 (1965) [7, 722 (1965)]
- The Phenomenon of "Vacancy Breakdown" During Self-Diffusion in Alkali-Halide Single Crystals. (E/T) Ya. E. Geguzin, V. I. Solunskii, and L. M. Reznik. *J.* 640 (1965) [7, 802 (1965)]
- Diffusion of Indium in Germanium Along Dislocations. (E) V. A. Panteleev. *J.* 734 (1965) [7, 922 (1965)]
- Diffusion of Silver and Sodium in Lead Selenide. (E) N. A. Fedorovich. *J.* 1289 (1965) [7, 1593 (1965)]
- Diffusion of Chlorine in PbSe Single Crystals. (E) N. A. Fedorovich. *J.* 1291 (1965) [7, 1594 (1965)]
- Theory of Nuclear Spin Diffusion in Ferromagnets. (T) L. L. Bulshvili. *J.* 1505 (1965) [7, 1871 (1965)]
- Diffusion of "Hot" Electrons in n-n Heterojunctions. (T) Z. S. Grinbovskiy and V. I. Mel'nikov. *J.* 1612 (1966) [7, 1997 (1966)]
- Diffusion of Thallium Along Dislocations in a Potassium Iodide Single Crystal. (E) Ya. E. Geguzin and E. R. Dobrovinskaya. *J.* 1660 (1966) [7, 2058 (1966)]
- Application of the Method of "Standard Curves" to Investigation of the Diffusion of Antimony on Germanium and Silicon Surfaces. (E/T) P. V. Pavlov and V. A. Panteleev. *J.* 1776 (1966) [7, 2209 (1966)]
- Coherent Radiation of GaAs p-n Junctions Prepared by the Diffusion of Beryllium. (E) E. A. Poltoratskii, V. M. Shuchebnikov, and A. E. Yunovich. *J.* 1798 (1966) [7, 2231 (1966)]
- Influence of Impurities on the Diffusion of Color Centers in Alkali Halide Crystals. (T/E) A. S. Shibanov. *J.* 1957 (1966) [7, 2423 (1966)]
- Calculation of the Energy of Introduction and the Activation Energy for Diffusion of Hydrogen in Metals. (T) A. I. Gubanov and V. K. Nikulin. *J.* 2184 (1966) [7, 2701 (1966)]
- Mechanism of the Anomalous Diffusion of Zinc in Indium Antimonide. (E) I. V. Protopopova, E. Ya. Pumper, and N. V. Tronova. *J.* 2631 (1966) [7, 3255 (1966)]
- Effect of the Internal Electric Field on the Diffusion of Impurities in Semiconductors. (T/E) V. V. Vas'kin, V. A. Uskov, and M. Ya. Shirobokov. *J.* 2703 (1966) [7, 3356 (1966)]
- Diffusion and Solubility of Copper in Lead Selenide. (E) F. F. Kharakhortin, D. A. Gamberova, and V. V. Aksenov. *J.* 2813 (1966) [7, 3481 (1966)]
- Self-Diffusion of Na⁺ Ions Along Edge and Screw Dislocations in NaCl Single Crystals. (E) Ya. E. Geguzin and E. R. Dobrovinskaya. *J.* 2826 (1966) [7, 3498 (1966)]

Dislocations

- Equation of Motion of a Dislocation in an Anisotropic Medium. (T) A. M. Kosevich and V. D. Natski. *J.* 22 (1965) [7, 33 (1965)]
- The Motion and Multiplication of Dislocations in Cesium Iodide Crystals. (E/T) R. Thyagarajan and A. A. Urusovskaya. *J.* 64 (1965) [7, 88 (1965)]
- Role of the Process of Dislocation Generation in the Twinning of Calcite. (T/E) S. N. Komnik, V. Z. Bengus, and V. I. Startsev. *J.* 96 (1965) [7, 127 (1965)]
- Rate of Disappearance of Mechanical Twins in Calcite. (E) R. I. Garber and E. I. Stepina. *J.* 122 (1965) [7, 161 (1965)]
- A Possible Mechanism for the Multiplication of Twinning Dislocations. (T) R. I. Garber and E. I. Stepina. *J.* 366 (1965) [7, 459 (1965)]

- The Distribution of Charge Near a Prismatic Dislocation Loop in an Ionic Crystal. (T) A. M. Kosevich, I. G. Margvelashvili, and Z. K. Saralidze. *J.* 370 (1965) [7, 464 (1965)]
- Optical Properties of Dislocations in Semiconductors. (T) E. R. Sokolova. *J.* 390 (1965) [7, 489 (1965)]
- On the Dislocation Structure of Aluminum During Creep. (E) M. M. Myshlysev. *J.* 468 (1965) [7, 591 (1965)]
- Radiative Recombination in Germanium Crystals Having a High Density of Dislocations. (E/T) A. A. Gippis, V. S. Vavilov, L. A. Goncharov, and M. S. Murashov. *J.* 513 (1965) [7, 645 (1965)]
- Radiative Recombination at Edge Dislocations in Germanium. (E/T) Yu. L. Ivanov. *J.* 629 (1965) [7, 788 (1965)]
- Investigation of Structural Defects in CdS Single Crystals. (T) N. I. Vitrikhovskii, L. I. Daisenko, and M. Ya. Skorokhod. *J.* 693 (1965) [7, 870 (1965)]
- Coalescence of Dislocation Loops in the Nonsteady State. (T) Z. K. Saralidze and V. V. Slezov. *J.* 718 (1965) [7, 904 (1965)]
- Diffusion of Indium in Germanium Along Dislocations. (E) V. A. Panteleev. *J.* 734 (1965) [7, 922 (1965)]
- Dislocation Motion and Stress Relaxation in Sodium Chloride Crystals. (E/T) N. K. Rakova and A. A. Predvoditelev. *J.* 866 (1965) [7, 1081 (1965)]
- Nonconservative Steady-State Dislocation Motion. (T) A. L. Rothbard. *J.* 916 (1965) [7, 1142 (1965)]
- Observation of Stress Fields Around Individual Dislocations by the Method of Anomalous Transmission of X Rays. (E) L. N. Danil'chuk and T. A. Smorodina. *J.* 1003 (1965) [7, 1245 (1965)]
- Theory of the Steady-State, Nonconservative Motion of a Dislocation. (T) A. L. Rothbard. *J.* 1099 (1965) [7, 1349 (1965)]
- The Interaction of a Crack with Dislocation Boundaries. (E) V. M. Finkel', A. M. Saval'ev, L. B. Zuev, S. V. Serobryakov, Yu. M. Korobov, and I. B. Zueva. *J.* 1130 (1965) [7, 1402 (1965)]
- Relationship Between Dislocation Density and Stresses Resulting from Deformation of LiF Crystals. (E) B. I. Smirnov and Yu. I. Patrikeev. *J.* 1336 (1965) [7, 1649 (1965)]
- Effect of the Coalescence of Dislocation Loops on the Internal Friction in Quenched Metals. (T/E) Z. K. Saralidze. *J.* 1474 (1965) [7, 1832 (1965)]
- Kinetics of Dislocation Pinning by Point Defects in Ionic Crystals. (E) A. A. Biletsanov, I. V. Trutskii, and M. P. Shashol'skaya. *J.* 1492 (1965) [7, 1856 (1965)]
- Diffusion of Thallium Along Dislocations in a Potassium Iodide Single Crystal. (E) Ya. E. Geguzin and E. R. Dobrovinskaya. *J.* 1660 (1966) [7, 2058 (1966)]
- Investigation of Slip Lines in LiF Single Crystals Using Statistical Distribution Graphs of Distances Between Etch Pits. (E/T) V. M. Borzhkovskaya, A. I. Landau, and V. B. Pariiskii. *J.* 1719 (1966) [7, 2136 (1966)]
- Rate of Motion of Dislocations with Steps. (T) A. N. Orlov. *J.* 1857 (1966) [7, 2333 (1966)]
- Kinetics of the Formation of Suzuki Segregations. (T) M. A. Shtremel'. *J.* 2003 (1966) [7, 2488 (1966)]
- A Dislocation Theory of Internal Friction. (T) E. G. Shvidkovskii and S. M. Khazadzhyan. *J.* 2120 (1966) [7, 2650 (1966)]
- Decrease of the Critical Stresses for Dislocation Movement and Multiplication During Repeated Bending. (E) R. I. Garber, I. I. Soloshenko, and O. A. Khaldei. *J.* 2147 (1966) [7, 2655 (1966)]
- Piezoelectric Scattering by an Uncharged Dislocation. (T) I. R. Levinson. *J.* 2306 (1966) [7, 2878 (1966)]
- Dislocation Structure of Crystals with the Diamond Lattice. Grown Along the [100] Direction. (E) L. S. Milevskii and V. D. Khvostukova. *J.* 2681 (1966) [7, 3326 (1966)]
- Dislocation Decoration in Gallium Arsenide Crystals. (E) M. G. Mil'vidskii, V. B. Ovsennik, and T. G. Yugova. *J.* 2791 (1966) [7, 3454 (1966)]

Elasticity and Plasticity

- Density Change of Ionic Crystals Subjected to Plastic Compression. (E) R. I. Garber and L. M. Polyakov. *J.* 127 (1965) [7, 167 (1965)]
- Adiabatic and Isothermal Finite Elastic Deformations of a Solid. (E) A. A. Nran'yan. *J.* 279 (1965) [7, 345 (1965)]
- Temperature Coefficients of the Elastic Moduli of Alkali-Halide Crystals. (T/E) V. V. Mitskevich and S. P. Nikanorov. *J.* 657 (1965) [7, 823 (1965)]
- The Third-Order Elastic Constants of Alkali-Halide Crystals. (E) A. A. Nran'yan. *J.* 729 (1965) [7, 917 (1965)]
- Plasticity of Silicon. (E) I. D. Kirvaldize. *J.* 1532 (1965) [7, 1897 (1965)]
- Boundary Conditions for Magnetoelastic Systems. (T) V. A. Ignatchenko and E. V. Kuz'min. *J.* 1585 (1966) [7, 1962 (1966)]
- Effect of Structure on Young's Modulus and on the Damping Decrement of Aluminum. (E) T. Ya. Beniseva, L. N. Larikov, and I. G. Polotski. *J.* 1839 (1966) [7, 2273 (1966)]
- Hardness of Crystalline Methane. (E/T) D. N. Bol'shukhin, A. V. Leont'eva, V. G. Snigirev, and V. I. Startsev. *J.* 2110 (1966) [7, 2607 (1966)]
- Decrease of the Critical Stresses for Dislocation Movement and Multiplication During Repeated Bending. (E) R. I. Garber, I. I. Soloshenko, and O. A. Khaldei. *J.* 2147 (1966) [7, 2655 (1966)]
- Mechanical Properties of Polycrystalline Ammonia Under Uniaxial Compression. (E) D. N. Bol'shukhin, A. I. Prokhorov, T. V. Sil'vestrova, and V. I. Startsev. *J.* 2255 (1966) [7, 2789 (1966)]

Electrical Conductivity

- Problem of the Energy Spectrum of the Fe^{3+} Ion in Connection with the Electrical Conductivity of Ferrite Spinel. (T) A. A. Samokhvalov and A. N. Men'. *J.* 221 (1965) [7, 283 (1965)]
- The Influence of the Structure of Thin Films on Their Electrical Conductivity. (T/E) Yu. F. Komik and L. S. Palatnik. *J.* 429 (1965) [7, 539 (1965)]
- Electrical Conductivity of Single-Crystal Bismuth in the Temperature Range 80-540°K. (E/T) A. B. Amilin and Yu. Z. Kovdya. *J.* 633 (1965) [7, 793 (1965)]
- Electrical Conductivity of a Mixture of Amorphous and Crystalline Selenium in Strong Electric Fields. (E) A. R. Regel' and B. G. Tagiev. *J.* 742 (1965) [7, 928 (1965)]
- Relaxation Phenomena in Diode Structures in Cadmium Sulfide Films. (E/T) É. I. Adirovich, L. A. Dubrovskii, and L. B. Suzdalkina. *J.* 759 (1965) [7, 943 (1965)]
- Change in Electrical Conductivity and Thermoelectromotive Force of In_2Te_3 and Ga_2Te_3 Upon Melting. (E) V. P. Zhuze and A. I. Shelykh. *J.* 942 (1965) [7, 1175 (1965)]
- Electrical Conductivity of Films in Strong Electric Fields. (T) T. N. Plisner and V. B. Sandomirskii. *J.* 984 (1965) [7, 1228 (1965)]
- Conductivity Induced in Germanium by Bombardment with Potassium Ions in Different Crystallographic Directions. (E) I. A. Abroyan and A. I. Tikhov. *J.* 1619 (1966) [7, 2007 (1966)]
- On the Instability of Electric Current in Semiconductors Due to Spin-Wave Excitation. (T) Z. Z. Makhmudov and V. G. Bar'yakhtar. *J.* 1677 (1966) [7, 2082 (1966)]
- Negative Differential Resistance of Silicon Carbide Crystals. (E) L. K. Kirkin. *J.* 1787 (1966) [7, 2220 (1966)]
- Anisotropic Effect of Electron-Electron Scattering on the Conductivity of Semiconductors with Ellipsoidal Equiproduct Surfaces. (T) I. M. Dykman and P. M. Tomchuk. *J.* 1861 (1966) [7, 2298 (1966)]
- Effect of Mutual Drag of Electrons and Phonons on the Electrical Conductivity of Semimetals and Degenerate Semiconductors in a Strong Electric Field. (T) V. A. Chumakov. *J.* 1990 (1966) [7, 2469 (1966)]
- Temperature Dependence of the Hall Effect and of the Electrical Conductivity of Germanium Telluride. (E) A. A. Andreev, L. M. Sysoeva, and E. Ya. Lev. *J.* 2066 (1966) [7, 2558 (1966)]

- Hysteresis Nature of the Current-Voltage Characteristic of a p-n Junction Produced by Irradiation in Germanium. (E) A. B. Gerasimov, N. D. Dolizhe, B. M. Konovalenko, and S. M. Rykin. *J.* 2070 (1966) [7, 2562 (1966)]
- The Relationship Between Electrical Conductivity and the State of the V^{5+} Ions in V_2O_5 Crystals. (E) L. V. Dmitrieva, V. A. Ioffe, and I. B. Patrino. *J.* 2228 (1966) [7, 2754 (1966)]
- The Electrical Conductivity of Inversion Layers Formed in n-Silicon by Bombardment with Boron Ions. (T) P. V. Pavlov, E. I. Zorin, D. I. Tetelbaum, and E. K. Granitskaya. *J.* 2386 (1966) [7, 2940 (1966)]
- Influence of the Concentration of Donors and Acceptors on the Electrical Conductivity of Heavily Doped n-Type Silicon. (E) N. A. Penin, B. G. Zhurkin, and B. A. Volkov. *J.* 2580 (1966) [7, 3188 (1966)]
- Current Oscillations in Compensated Germanium and Silicon. (E) B. S. Muravskii, V. S. Guskov, N. G. Krushchina, and A. G. Shved. *J.* 2748 (1966) [7, 3412 (1966)]
- Electrical Conductivity and Thermo-emf of Some Manganese Spinels. (E/T) I. T. Sheftel' and Ya. V. Pivotski. *J.* 2781 (1966) [7, 3445 (1966)]
- Electrical Conductivity of X-Ray Irradiated Fluorite Crystals. (E) Yu. B. Vladimirovskii and T. I. Nikitinskaya. *J.* 2912 (1966) [7, 3612 (1966)]
- Some Properties of p-Type $CdS_{1-x}Se_x$. (E) V. V. Galavanov, N. A. Goryunova, N. M. Korshak, S. Mamayev, and A. Nazarov. *J.* 2949 (1966) [7, 3655 (1966)]
- Change in the Electrical Conductivity of Perovskite-Type Ceramics in an Electric Field at High Temperatures. (E) V. Ya. Kulin, A. N. Telkin, and A. Shakhov. *J.* 2961 (1966) [7, 3666 (1966)]

Electrical Properties and Effects

- The Temperature Dependence of the Electrical Resistivity of Germanium at Pressures up to 90 kbar. (E) N. N. Kuzin and A. A. Semerchan. *J.* 186 (1965) [7, 244 (1965)]
- The Influence of an Electric Field on the Resonance Frequency of Antiferromagnets. (T/E) V. G. Shavrov. *J.* 265 (1965) [7, 328 (1965)]
- Electrical Excitation of "Fast" States as a Method of Investigating Their Parameters. (E/T) B. S. Muravskii. *J.* 273 (1965) [7, 334 (1965)]
- Electrical Resistance Anomaly in the Region of the Compensation Temperature in the Ferrite $NiFe_{1-x}Al_{x-1}O_4$. (E/T) K. P. Belov, A. N. Goryunov, and N. N. Volkova. *J.* 378 (1965) [7, 474 (1965)]
- The Electrical Properties of Yttrium Ferrites Having a Garnet Structure. (E/T) K. P. Belov, M. A. Zaitseva, A. N. Kadomtseva, and T. L. Ovchinnikova. *J.* 381 (1965) [7, 477 (1965)]
- Electrical Properties of Hexagonal SiC with N and B Impurities. (E/T) G. A. Lomakina. *J.* 475 (1965) [7, 600 (1965)]
- Degeneracy Factors of Impurity Levels and the Analysis of Electrical Properties of Germanium Doped with Gold. (E/T) V. V. Ostrobodova. *J.* 484 (1965) [7, 610 (1965)]
- Influence of High Pressure on the Electrical Properties of Germanium Telluride. (E/T) K. A. Andreev, L. M. Sysoeva, and E. Ya. Lev. *J.* 520 (1965) [7, 653 (1965)]
- Electrical Anisotropy in Polarized Ceramic Materials (Electrets). (E/T) N. P. Bogoroditski, V. N. Rudakov, and D. A. Talrova. *J.* 528 (1965) [7, 659 (1965)]
- Low-Temperature Voltage Sensitivity of Gold-Doped p-Type Germanium. (E) I. A. Kurova, V. V. Ostrobodova, and N. N. Ormond. *J.* 755 (1965) [7, 940 (1965)]
- Effect of the Electric Field on the EPR Spectrum. (T) V. V. Druzhinin. *J.* 764 (1965) [7, 948 (1965)]
- Electrical Resistance and Thermoelectric Power of La-Ce-La-Pr and Pr-Nd Alloys. (E) M. V. Vedernikov, I. A. Markova, and G. N. Meshkova. *J.* 766 (1965) [7, 950 (1965)]
- Effect of Cathode Material on the Electrical Strength of a Solid Dielectric. (E) G. A. Vorob'ev and L. G. Nekrasova. *J.* 800 (1965) [7, 995 (1965)]

- Thermal and Electrical Properties and the Forbidden Band Width of the $\text{Bi}_2\text{Te}_3\text{-Sb}_2\text{S}_3$ Solid-Solution System. (E/T) V. A. Kutasov, B. Ya. Melnits, and I. A. Smirnov. 7, 854 (1965) [7, 1065 (1965)]
- Electrical Properties of Ferrite Spinel with a Variable Content of Divalent Iron Ions. (E/T) A. A. Samokhvalov and A. G. Rustamov. 7, 961 (1965) [7, 1198 (1965)]
- Electric-Field-Induced Shift of the Fundamental Absorption Edge in GaAs, CdS, and CdTe Films. (E) P. S. Kireev, N. N. Orlova, V. N. Saurin, and L. N. Strelnikov. 7, 1029 (1965) [7, 1271 (1965)]
- Electric and Photoelectric Properties of ZnSIPs. (E) N. A. Goryunova, F. P. Kessamany, D. N. Nasledov, V. V. Negreskul, Yu. V. Rud', and S. V. Siobodchikov. 7, 1060 (1965) [7, 1312 (1965)]
- Temperature Dependence of the Electric Strength of Alkali Halide Crystals. (E/T) E. A. Konorova and L. A. Sorokina. 7, 1186 (1965) [7, 1475 (1965)]
- The Effect of An External Electric Field on the Characteristics of p-n, p-p-p, and p-p-p-n Structures. (E) R. S. Nakhmanson. 7, 1251 (1965) [7, 1556 (1965)]
- Effect of Copper on the Electrical Properties of Gallium Arsenide. (E) O. V. Emel'yanenko, E. E. Klotyash, and D. N. Nasledov. 7, 1292 (1965) [7, 1595 (1965)]
- Anisotropy of the Electrical and Photoelectric Properties of InSe. (T/E) I. P. Zhad'ko, E. I. Rashtin, V. A. Romanov, I. M. Stakhira, and K. D. Tovstyk. 7, 1432 (1965) [7, 1777 (1965)]
- Electrical Properties of Gallium Phosphide Doped with Tellurium. (E/T) D. N. Nasledov, V. V. Negreskul, and S. V. Siobodchikov. 7, 1549 (1965) [7, 1912 (1965)]
- Electrical Properties of Some Solid Solutions of the $\text{Zn}_2\text{Hg}_{1-x}\text{Te}$ System. (E/T) E. Cruceanu, D. Niculescu, I. Stamatescu, N. Nistor, and S. Ionescu-Bujor. 7, 1646 (1966) [7, 2039 (1965)]
- Investigation of Electric Transport of Components in the Molybdenum-Tungsten System in a Wide Range of Temperatures. (E) M. D. Smolina. 7, 1758 (1966) [7, 2186 (1965)]
- Energy Spectrum of Carriers in Germanium Telluride. (E/T) L. M. Sysoeva, Z. Ye. Lav, and N. V. Kolomoets. 7, 1791 (1966) [7, 2223 (1965)]
- Growth and Electrical Properties of Epitaxial Layers of p-Type Gallium Phosphide. (E) Zh. I. Alferov, V. I. Korol'kov, M. K. Trukhan, and S. P. Chashchin. 7, 1915 (1966) [7, 2370 (1965)]
- Theory of the Electroacoustic Effect in Semiconductors of the n-Ge and n-Si Types. (T) S. V. Gantsevich and V. L. Gurevich. 7, 1939 (1966) [7, 2400 (1965)]
- Electric Discharge in Thin Layers of Germanium at Helium Temperatures. (E) E. I. Zavaritskaya. 7, 1983 (1966) [7, 2459 (1965)]
- Influence of an Electric Field on the Position of the Optical Absorption "Edge" in Polycrystalline Films of CdS. (E/T) K. I. Britay, B. A. Volkov, V. V. Matveev, and A. A. Smirnov. 7, 2044 (1966) [7, 2536 (1965)]
- Some Electrical Properties of Semi-Insulating Gallium Arsenide. (E) Arun P. Kul'sreshtha and A. E. Yuvovich. 7, 2058 (1966) [7, 2549 (1965)]
- The Problem of the Mechanism of the Formation and Annihilation of Heterocharge in Beewax Electrets. (T/E) V. F. Osukhovskii and L. A. Tkachenko. 7, 2086 (1966) [7, 2578 (1965)]
- Negative Resistance and the Generation of Oscillations at Point Contacts in p-Type InSb. (E) I. A. Baev. 7, 2100 (1966) [7, 2594 (1965)]
- Conditions for the Existence of the Electrochemical Effect in Germanium. (E) M. S. Ahlova. 7, 2217 (1966) [7, 2740 (1965)]
- Electrical Properties of Indium Antimonide Irradiated by Neutrons at 77°K and by Electrons at 300°K. (E) L. K. Vodopyanov and N. I. Kurdiani. 7, 2234 (1966) [7, 2749 (1965)]
- Electrical Properties of Titanium Carbide. (E) O. A. Golikova, A. I. Avgustinik, G. M. Klimashin, and L. V. Kozlovskii. 7, 2317 (1966) [7, 2860 (1965)]
- Electrical and Radiospectroscopic Investigations of Barium Titanate with Addmixtures of Oxides of Trivalent Elements. (E) B. A. Rotenberg, Yu. L. Danilyuk, E. I. Gindin, and V. G. Prokhvatlov. 7, 2485 (1966) [7, 3048 (1965)]
- Investigation of the Acoustoelectric Effect in Cadmium Sulfide Crystals. (E) A. I. Morozov. 7, 2482 (1966) [7, 3070 (1965)]
- Appearance of an EMF on the Annealing of NaCl:Ag Single Crystals Irradiated with Beta-Particles. (E) V. P. Avdonin, I. A. Vasil'ev, G. A. Mikhail'chenko, B. T. Plachenov, and V. A. Shibaev. 7, 2514 (1966) [7, 3110 (1965)]
- Polarization of Nuclear Spins of Semiconductors by Direct Current. (T) V. P. Kalashnikov. 7, 2574 (1966) [7, 3180 (1965)]
- Effect of the Internal Electric Field on the Diffusion of Impurities in Semiconductors. (T/E) V. V. Vas'kin, V. A. Uskov, and M. Ya. Shirobokov. 7, 2703 (1966) [7, 3356 (1965)]
- Conditions for Obtaining Stable Negative Resistance in CdS. (E) E. Vateva. 7, 2737 (1966) [7, 3402 (1965)]
- Electrical Properties of Ge-GaAs Heterojunctions. (E) V. K. Aladinskii and A. A. Maslov. 7, 2769 (1966) [7, 3452 (1965)]
- Interband Faraday Effect in Semiconductors in Strong Crossed Electric and Magnetic Fields. (T) B. M. Askerov and F. M. Gashimzade. 7, 2926 (1966) [7, 3631 (1965)]
- The Effect of Deep Acceptor Levels on the Electrical Properties of p-InSb. (E) A. D. Berkelev, V. V. Galavanov, and D. N. Nasledov. 7, 2980 (1966) [7, 3685 (1965)]
- Electrical Properties of Carbides of Transition-Metals in Group IV. (E) O. A. Golikova, A. I. Avgustinik, G. M. Klimashin, L. V. Kozlovskii, S. S. Ordanyan, and V. A. Shetkova. 7, 2995 (1966) [7, 3698 (1965)]

Electromagnetic Waves

- Anisotropic Absorption of Electromagnetic Waves by Hot Carriers in Semiconductors. (E) E. M. Gerasimov, Yu. A. Gurevich, and L. B. Litvak-Gorskaya. 7, 1111 (1965) [7, 1378 (1965)]
- Coupled Surface Waves in Semiconductors. (T) M. I. Kheifets. 7, 2516 (1966) [7, 3485 (1965)]

Electron Beams

- Resonance Amplification of Ultrasonic Rayleigh Waves by a Beam of Charged Particles Passing Near the Surface of a Crystal. (T) Yu. V. Gulyaev and P. E. Zil'berman. 7, 2243 (1966) [7, 2772 (1965)]
- Calculation of the Absorption of Energy of an Electron Beam in Matter. (T) V. S. Ravin. 7, 2767 (1966) [7, 3430 (1965)]

Electron Emission and Absorption

- Auger Ejection of Electrons from Tungsten and Molybdenum by Mercury Ions. (E/T) A. A. Dorozhkin and N. N. Petrov. 7, 88 (1965) [7, 118 (1965)]
- Secondary Electron Emission of Alkali-Halide Compounds. (E) M. V. Gomoyunova and N. A. Lehnov. 7, 316 (1966) [7, 394 (1965)]
- A Study of Carrier Mobility in Organic Materials. (T) E. L. Frankovich and E. I. Balabanov. 7, 570 (1965) [7, 710 (1965)]
- Secondary Electron Emission of Some Aromatic Hydrocarbons. (E/T) E. G. Martinovskaya. 7, 661 (1965) [7, 828 (1965)]
- Experimental Investigation of the Energy Spectrum and Emission Properties of Thin Germanium Films on Tungsten. (E) N. V. Mileshkina and I. L. Sokol'skaya. 7, 838 (1965) [7, 1043 (1965)]
- Field-Enhanced Secondary Electron Emission on Transmission Through Thin Zinc Sulfide Films. (E) L. A. Serrebrov and V. I. Salin. 7, 988 (1965) [7, 1233 (1965)]
- Emission of Electrons on Bombardment of Alkali Halide Single Crystals with Slow Helium and Argon Ions. (E) A. I. Kondrashev and N. N. Petrov. 7, 1255 (1965) [7, 1559 (1965)]
- Field-Enhanced Secondary Electron Emission During Transmission Through Magnesium Fluoride Films. (E) L. A. Serrebrov and V. I. Salin. 7, 1261 (1965) [7, 1565 (1965)]
- Study of Secondary Electron Emission from Solids with Obliquely Incident Primary Electrons. (E) I. M. Bronshtein and S. S. Denisov. 7, 1484 (1965) [7, 1946 (1965)]

- Regarding Local Work Functions. (T) V. I. Vladimirov. *Z.* 1536 (1965) [*Z.* 1906 (1965)]
- Emission and Adsorption Characteristics of Faces of a Tungsten Single Crystal. (E) U. V. Anisov and G. N. Shuppe. *Z.* 1591 (1966) [*Z.* 1970 (1965)]
- Work Function of the BaO-Au System. (E) Yu. G. Shishkin. *Z.* 1551 (1966) [*Z.* 2286 (1965)]
- Direct Proof of the Existence of Positive Charge Adsorbed Th Atoms. (E) Yu. S. Vedala and V. M. Gavriluk. *Z.* 2056 (1966) [*Z.* 2547 (1965)]
- Emission Properties of a Molybdenum Single Crystal. (E) U. A. Anisov, U. V. Vakhidov, V. M. Sulmanov, B. N. Sheinberg, and G. N. Shuppe. *Z.* 2232 (1966) [*Z.* 2759 (1965)]
- Injection and Extraction of Hot Electrons in n-n⁺ Heterojunctions with Rapid Maxwellization of the Electron Gas. (T) Z. S. Gribelkov and V. I. Mel'nikov. *Z.* 2364 (1966) [*Z.* 2912 (1965)]
- Energy Spectra of Fast Secondary Electrons Emitted by Alkali-Halide Compounds. (E) M. V. Gomoyunova and N. A. Letunov. *Z.* 2427 (1966) [*Z.* 2995 (1965)]
- Secondary Emission of Germanium Under Bombardment by Potassium Ions Along Various Crystallographic Directions. (E) I. A. Abroyan, V. P. Lavrov, and A. I. Tihov. *Z.* 2557 (1966) [*Z.* 3159 (1965)]
- Field Emission of Electrons from a Metal Covered with a Layer of Adsorbed Atoms. (E/T) L. N. Dobretsov. *Z.* 2589 (1966) [*Z.* 3200 (1965)]
- Statistical Model Treatment of Electron-Density Distribution and X-Ray Scattering Intensity for Atoms and Ions in a Lattice. (T) R. I. Anishechenko. *Z.* 2699 (1966) [*Z.* 3227 (1965)]
- Field-Emission Microscopy of Ni-Be Alloys. (E) A. P. Komar and N. N. Sytkin. *Z.* 2679 (1966) [*Z.* 3310 (1965)]
- Applicability of the Approximation of Continuous Energy Losses by Electrons in the Moderate Energy Range. (T/E) B. Ya. Yurkov. *Z.* 2742 (1966) [*Z.* 3406 (1965)]
- Angular Dependence of the Secondary Emission Coefficients for a KBr Single Crystal Bombarded with Potassium Ions. (E) I. A. Abroyan, V. P. Lavrov, and I. G. Fedorova. *Z.* 2954 (1966) [*Z.* 3660 (1965)]
- Ferroelectric Materials and Properties**
- Infrared Absorption Spectra of Perovskite-Type Ferroelectric Crystals. (E) A. I. Stekhanov, A. A. Karamyan, and N. I. Astaf'ev. *Z.* 119 (1965) [*Z.* 157 (1965)]
- Determination of the Curie Point of the Ferroelectrics YMnO_3 and YbMnO_3 . (E/T) I. G. Ismailzade and S. A. Kizhaev. *Z.* 236 (1965) [*Z.* 298 (1965)]
- The Temperature Dependence of the Low-Frequency Raman-Scattering Spectrum of KH_2PO_4 and $\text{NH}_4\text{H}_2\text{PO}_4$ Crystals. (T/E) I. M. Aref'ev and P. A. Bazhulin. *Z.* 326 (1965) [*Z.* 407 (1965)]
- Influence of the Domain Structure of Ceramic Ferroelectrics on Their Mechanical Properties. (E) L. N. Sytkin and A. M. El'gard. *Z.* 967 (1965) [*Z.* 1206 (1965)]
- Investigation of the Magnetic Ordering in Ferroelectric $\text{PbFe}_{0.5}\text{Nb}_{0.5}\text{O}_3$. (E) G. M. Drabkin, E. I. Mal'tsev, and V. P. Plakhtil. *Z.* 997 (1965) [*Z.* 1241 (1965)]
- Ferroelectric Properties of Solid Solutions in the KNO_3 - KI System. (E) A. Ya. Dantsiger and I. A. Freizon. *Z.* 1218 (1965) [*Z.* 1517 (1965)]
- Investigation of the Ferroelectric Solid Solution $\text{Ba}(\text{Ti}_{0.95}\text{Zr}_{0.05})\text{O}_3$ at High Pressures. (E) I. N. Polandov. *Z.* 1508 (1965) [*Z.* 1874 (1965)]
- The Mössbauer Effect in Sn^{119} Nuclei in Ferroelectric Phase Transitions in the Solid Solution $\text{Ba}(\text{Ti}_{1-x}\text{Sn}_x)\text{O}_3$. (E) V. A. Bokov, V. P. Romanov, and V. V. Chekin. *Z.* 1821 (1965) [*Z.* 1886 (1965)]
- Ferroelectric Properties of $\text{Rb}_x\text{K}_{1-x}\text{NO}_3$ Solid Solutions. (E) A. Ya. Dantsiger and I. A. Freizon. *Z.* 1762 (1966) [*Z.* 2190 (1965)]
- Antiferroelectric Properties of Lead Silicate PbSiO_3 . (E) V. A. Isupov. *Z.* 1789 (1966) [*Z.* 2221 (1965)]
- Investigation of a Phase Transition in a Ferroelectric NaNO_3 Crystal Using Raman Scattering Spectra. (E/T) E. V. Chisler. *Z.* 1825 (1966) [*Z.* 2258 (1965)]
- Long-Wave Infrared Transmission Spectra of KH_2PO_4 . (E) I. M. Aref'ev, P. A. Bazhulin, and T. V. Mikhail'seva. *Z.* 1948 (1966) [*Z.* 2413 (1965)]
- Ferroelectricity and Magnetism in Ferroelectric-Ferromagnetic Systems. (E) Yu. Ya. Tomashpol'skii, Yu. N. Venet'sev, and V. N. Beznodrev. *Z.* 2235 (1966) [*Z.* 2763 (1965)]
- Long-Wavelength Infrared Transmission Spectra of $\text{NH}_4\text{H}_2\text{PO}_4$. (E) I. M. Aref'ev, P. A. Bazhulin, and I. S. Zheludev. *Z.* 2290 (1966) [*Z.* 2834 (1965)]
- Ferroelectricity-Magnetism in the System Pb_2CoWO_6 - BaTiO_3 . (E) Yu. Ya. Tomashpol'skii and Yu. N. Venet'sev. *Z.* 2529 (1966) [*Z.* 3126 (1965)]
- Radiation-Induced Changes in the Properties of Ferroelectrics, Due to an Internal Bias Field. (E) S. V. Starodubtsev and E. V. Peshkov. *Z.* 2570 (1966) [*Z.* 3175 (1965)]
- Phase Transition in Barium Titanate at High Hydrostatic Pressure. (E) G. G. Leonidova and T. R. Volk. *Z.* 2694 (1966) [*Z.* 3344 (1965)]
- Temperature Dependence of the Raman Scattering Spectra of the Ferroelectric Crystal KH_2PO_4 . (E) A. I. Stekhanov and E. A. Popova. *Z.* 2849 (1966) [*Z.* 3530 (1965)]
- Nonlinear Properties of a Ferroelectric Ceramic in Strong Microwave Fields. (E) I. V. Ivanov and N. A. Morozov. *Z.* 2923 (1966) [*Z.* 3627 (1965)]
- Ferromagnetic and Ferrimagnetic Materials, Properties, and Effects**
- Absorption Spectrum of the Fe^{3+} Ion in $\text{PbFe}_{0.5}\text{Nb}_{0.5}\text{O}_3$ and in $\text{Ga}_{1-x}\text{Fe}_x\text{O}_3$. (E) R. V. Pisarev. *Z.* 158 (1965) [*Z.* 207 (1965)]
- The Energy Gap for the Spin Waves in Ferro- and Antiferromagnets, as Related to the Magnetoelectric Energy. (T) E. A. Turov and V. G. Shavrov. *Z.* 166 (1965) [*Z.* 217 (1965)]
- Temperature Dependence of the Initial Permeability of Cobalt-Zinc Ferrites. (E/T) S. A. Poltinnikov and G. M. Prikhodkina. *Z.* 241 (1965) [*Z.* 304 (1965)]
- Thermomechanical Treatment of Cobalt Ferrite. (E) B. Ya. Pines and N. M. Gumen. *Z.* 284 (1965) [*Z.* 351 (1965)]
- Investigation of the Structure and Magnetic Properties of Solid Solutions in the System BiFeO_3 - LaCrO_3 . (E) Yu. E. Roginskaya and Yu. N. Venet'sev. *Z.* 322 (1965) [*Z.* 400 (1965)]
- Electrical Resistance Anomaly in the Region of the Compensation Temperature in the Ferrite $\text{NiFe}_{1-x}\text{V}_x\text{O}_4$. (E/T) K. P. Belov, A. N. Goryaga, and N. V. Volkova. *Z.* 378 (1965) [*Z.* 474 (1965)]
- The Electrical Properties of Yttrium Ferrites Having a Garnet Structure. (E/T) K. P. Belov, M. A. Zaitseva, A. N. Kadomtseva, and T. L. Ovchinnikova. *Z.* 381 (1965) [*Z.* 477 (1965)]
- A Contribution to the Theory of the Anomalous Hall Effect in Ferroelectrics. (T/E) Yu. Kagan and L. A. Maksimov. *Z.* 422 (1965) [*Z.* 530 (1965)]
- Magnetic Spectra of Lithium-Zinc Ferrites. (E) L. A. Davydov, S. A. Poltinnikov, and M. F. Bryzhina. *Z.* 596 (1965) [*Z.* 746 (1965)]
- On the Nuclear Acoustic Resonance in Ferro- and Antiferromagnets. (T) L. L. Bulshvili and N. P. Giorgadze. *Z.* 614 (1965) [*Z.* 769 (1965)]
- High-Frequency Nonresonance Absorption by a Ferrimagnet. (T) G. M. Genkin. *Z.* 675 (1965) [*Z.* 846 (1965)]
- Thermomagnetic and Galvanomagnetic Effects in Manganese Ferrites. (E) K. P. Belov, E. V. Talalova, and T. V. Kudryavtseva. *Z.* 789 (1965) [*Z.* 981 (1965)]
- The Spin-Phonon Width of the Exchange Resonance Line. (T) G. M. Genkin and N. G. Golubeva. *Z.* 795 (1965) [*Z.* 989 (1965)]

- Spectrum of Spin Waves in Ferro-Antiferromagnets. (T) A. I. Mitsek and V. K. Zvezdin. *J.* 848 (1965) [*J.* 1057 (1965)]
- Slow Neutron Scattering in Antiferromagnets Having Weak Ferromagnetism. (E) V. G. Bar'yakhtar and A. G. Kvirikadze. *J.* 891 (1965) [*J.* 1110 (1965)]
- Electrical Properties of Ferrite Spinels with a Variable Content of Divalent Iron Ions. (E/T) A. A. Samokhvalov and A. G. Rustamov. *J.* 961 (1965) [*J.* 1198 (1965)]
- The Temperature Dependence of the Magnetization of Ferrites at Low Temperatures. (E/T) V. E. Rode, R. Germann, and I. V. Grishina. *J.* 1123 (1965) [*J.* 1393 (1965)]
- Anomalies in the Coercive Force and Residual Magnetization of Substituted Rare-Earth Ferrite Garnets. (E) I. S. Lyubutina. *J.* 1126 (1965) [*J.* 1397 (1965)]
- Quantum Theory of an Anisotropic One-Domain Ferromagnet. (T) V. Rybarska. *J.* 1156 (1965) [*J.* 1436 (1965)]
- The Asymmetry of Hysteresis Loops in Small Particles of an MnAl Alloy. (E/T) E. V. Shol'ts. *J.* 1202 (1965) [*J.* 1495 (1965)]
- Investigations of the Temperature and Frequency Dependences of the Ferromagnetic Resonance Line Width in Ferrite Single Crystals Near the Curie Temperature. (E) B. M. Lebed' and K. V. Shevlyagin. *J.* 1220 (1965) [*J.* 1519 (1965)]
- Some Features of the Thermal Resistance of Ferrites. (E/T) Ya. M. Bekker. *J.* 1240 (1965) [*J.* 1545 (1965)]
- Temperature Dependence of the Ferromagnetic Resonance Parameters in Ferrites with Induced Uniaxial Magnetic Anisotropy. (E) N. Z. Miryasov and V. A. Semkina. *J.* 1273 (1965) [*J.* 1577 (1965)]
- Theory of Nuclear Spin Diffusion in Ferromagnets. (T) L. L. Bulshvili. *J.* 1505 (1965) [*J.* 1871 (1965)]
- Behavior of a Cylindrical Domain Boundary of a Magnetically Uniaxial Ferromagnet in a Magnetic Field. (T) A. I. Mitsek. *J.* 1599 (1966) [*J.* 1979 (1965)]
- The Calculation of the Elastic Binding Coefficients and the Compressibility of Spinel. (T/E) V. S. Chudakov and A. N. Men'. *J.* 1821 (1966) [*J.* 2254 (1965)]
- Weak Ferromagnetism of CaMnO_3 . (E) V. M. Yudin, A. I. Gavrilishina, M. V. Artem'eva, and M. F. Bryzhina. *J.* 1856 (1966) [*J.* 2292 (1965)]
- Variation of Losses on Rotational Hysteresis in Single Crystals of Nickel-Cobalt Ferrites as the Result of Heat Treatment and Thermomagnetic Treatment. (E) N. I. Sudakov, S. Sh. Gendeleev, and A. I. Drokin. *J.* 1908 (1966) [*J.* 2362 (1965)]
- Ferroelectricity and Magnetism in Ferroelectric-Ferromagnetic Systems. (E) Yu. Ya. Tomashep'skii, Yu. N. Venetsev, and V. N. Beznozdrav. *J.* 2235 (1966) [*J.* 2763 (1965)]
- Investigation of Ferrite Garnet Crystals Containing Vanadium. (E) A. N. Ageev, M. M. Venetkaya, G. A. Zablotskii, I. E. Myl'nikova, R. V. Pisarev, and O. B. Proskuryakov. *J.* 2310 (1966) [*J.* 2853 (1965)]
- The Possibility of the Existence of Superconductivity in Ferromagnetic Materials Having a Domain Structure. (T) Yu. V. Kopayev. *J.* 2360 (1966) [*J.* 2907 (1965)]
- Emergence of a Multidomain State in Particles Having a Transitional Structure. (E) E. V. Shol'ts. *J.* 2445 (1966) [*J.* 3019 (1965)]
- Investigation of the Law of Approach to Saturation in Polycrystalline Samples of Yttrium Garnet. (E/T) V. Ya. Dubosarskaya. *J.* 2524 (1966) [*J.* 3120 (1965)]
- Parametric Excitation of Spin Waves in Polycrystalline Samples of Mg-Mn Ferrites. (E) A. I. Pil'shchikov and E. V. Lebedeva. *J.* 2677 (1966) [*J.* 3320 (1965)]
- Experimental Study of Low-Frequency Oscillations in the Region of Ferrite Instability Under Parallel Pumping. (E) N. K. Dovoichenko and Yu. S. Bronkevich. *J.* 2754 (1966) [*J.* 3417 (1965)]
- Effect of Crystal Defects on the Line Width of Ferromagnetic Resonance in Ferrites. (E) I. A. Deryugin and V. V. Danilov. *J.* 2894 (1966) [*J.* 3588 (1965)]
- Characteristics of the Scattering of Neutron by Ferromagnets in the Region of Ferroacoustic Resonance. (T) A. A. Kiochikhina and I. Ya. Korenblit. *J.* 2916 (1966) [*J.* 3617 (1965)]

Field Theory

- The "Waveguide" Theory of Field Emission of Molecular Complexes of Semiconductors, and Experimental Results. (E) A. P. Komar and V. P. Savchenko. *J.* 606 (1965) [*J.* 759 (1965)]
- Theory of the Polarization Operator. (T) V. N. Piskovoi and B. E. Tsakvaya. *J.* 908 (1965) [*J.* 1132 (1965)]
- Field Effect in Semiconductors in the Jump Conductivity Range. (E) V. B. Sandomirskii and Ya. A. Pyasta. *J.* 1778 (1966) [*J.* 2211 (1965)]

Films, Thin

- Inelastic Scattering of Electrons in Thin Films. (T/E) N. G. Nakhodkin, A. A. Ostroukhov, and V. A. Romanovskii. *J.* 161 (1965) [*J.* 210 (1965)]
- Electron-Microscope Investigation of Conducting SnO_2 Films. (E) I. F. Tigane. *J.* 212 (1965) [*J.* 276 (1965)]
- Oscillations of the Tunneling Current from Thin Metal Films. (T) G. A. Gogadze and I. O. Kulik. *J.* 345 (1965) [*J.* 432 (1965)]
- The Influence of the Structure of Thin Films on Their Electrical Conductivity. (T/E) Yu. F. Komuk and L. S. Palatnik. *J.* 429 (1965) [*J.* 539 (1965)]
- Transmission of Alkali-Metal Ions Through Thin Films. (E/T) E. M. Zarutskii. *J.* 518 (1965) [*J.* 650 (1965)]
- The Mechanism of Formation of Growth Textures in Beryllium Condensates. (E) L. S. Palatnik and A. I. Fedorenko. *J.* 653 (1965) [*J.* 819 (1965)]
- Relaxation Phenomena in Diode Structures in Cadmium Sulfide Films. (E/T) E. I. Adirovich, L. A. Dubrovskii, and L. B. Suzdalina. *J.* 759 (1965) [*J.* 943 (1965)]
- Effective Electron Mass and Optical Forbidden-Band Width of Indium Arsenide Films. (E/T) S. G. Shul'man and Yu. I. Ukharenov. *J.* 768 (1965) [*J.* 952 (1965)]
- Experimental Investigation of the Energy Spectrum and Emission Properties of Thin Germanium Films on Tungsten. (E) N. V. Mileskikhina and I. L. Sokol'skaya. *J.* 838 (1965) [*J.* 1043 (1965)]
- The Behavior of Adsorbed Cs Films on Single-Crystal Spikes of Ta and Ta_2O_5 . (E) N. A. Gorbatiy and E. M. Ryabchenko. *J.* 921 (1965) [*J.* 1150 (1965)]
- Field-Enhanced Secondary Electron Emission on Transmission Through Thin Zinc Sulfide Films. (E) L. A. Serebrov and V. I. Salin. *J.* 988 (1965) [*J.* 1233 (1965)]
- Electric-Field-Induced Shift of the Fundamental Absorption Edge in GaAs , CdS , and CdTe Films. (E) P. S. Kireev, N. N. Orlova, V. N. Saurin, and L. N. Stral'tsov. *J.* 1029 (1965) [*J.* 1271 (1965)]
- Effect of the Substrate on the Structure and Properties of PbTe Films. (T) L. S. Palatnik, V. K. Sorokin, and M. V. Lebedeva. *J.* 1374 (1965) [*J.* 1699 (1965)]
- Influence of an Electric Field on the Position of the Optical Absorption "Edge" in Polycrystalline Films of CdS . (E/T) K. I. Betsyn, B. A. Volkov, V. V. Matveev, and A. A. Smirnov. *J.* 2044 (1966) [*J.* 2536 (1965)]
- The Structure of Barium Oxide Films on the (110) Face of a Tungsten Single Crystal. (E) D. A. Gorodetskii and Yu. P. Mel'nik. *J.* 2248 (1966) [*J.* 2780 (1965)]
- Investigation of Permalloy Films with "Trans-Critical" Hysteresis Loops. (E) L. S. Palatnik, L. I. Lukashenko, and A. G. Ravlik. *J.* 2285 (1966) [*J.* 2829 (1965)]
- Preparation of Thin Intermetallic Compound Films by the Cathode Sputtering Method. (E) V. E. Yurasova, L. N. Levkyina, and V. M. Efremenkova. *J.* 2332 (1966) [*J.* 2875 (1965)]
- Superconductivity Phenomena in Thin Semiconductor Films. (T) V. Ya. Demikhovskii. *J.* 2903 (1966) [*J.* 3600 (1965)]

Narrow-Band-Gap Semiconductor Films which Develop Photovoltages up to 5000 V. (E) É. I. Adirovich, T. Mirzakhmudov, V. M. Rubinov, and Yu. M. Yuafov. *7*, 2646 (1966) [*7*, 3652 (1965)]

Friction

Effect of the Coalescence of Dislocation Loops on the Internal Friction in Quenched Metals. (T/E) Z. K. Saralidze. *7*, 1474 (1965) [*7*, 1832 (1965)]

Internal Friction Due to the Reorientation of Divacancies in a FCC Lattice. (E/T) S. K. Turkov and T. D. Shermegor. *7*, 1694 (1966) [*7*, 2064 (1965)]

Internal Friction and Strength of Copper Crystal Whiskers. (E) S. A. Ammer, A. T. Kostlov, and V. S. Postnikov. *7*, 1808 (1966) [*7*, 2242 (1965)]

Nature of the Internal Friction Peak in Face-Centered Cubic Interstitial Solid Solutions. (E/T) V. D. Verner. *7*, 1874 (1966) [*7*, 2318 (1965)]

A Dislocation Theory of Internal Friction. (T) E. G. Shvidkovskii and S. M. Khazardzhan. *7*, 2120 (1966) [*7*, 2620 (1965)]

Influence of High-Frequency Vibrations on the Recovery of the Internal Friction in LIF Single Crystals. (E) A. A. Blistanov and M. P. Shaokol'skaya. *7*, 2378 (1966) [*7*, 2930 (1965)]

Effect of Stress Alignment on the High-Temperature Background of Internal Friction. (T) S. K. Turkov and T. D. Shermegor. *7*, 2395 (1966) [*7*, 2952 (1965)]

Low-Frequency Internal Friction in Plastically Deformed Solids. (E) L. N. Aleksandrov, V. S. Morduk, and L. F. Savina. *7*, 2552 (1966) [*7*, 3153 (1965)]

Gamma Rays and Gamma Quanta

Mössbauer Effect in Indium Antimonide. (E/T) G. N. Belozerskii, I. A. Gusev, A. N. Murin, and Yu. A. Nemilov. *7*, 1012 (1965) [*7*, 1254 (1965)]

The Mössbauer Effect in Alkali-Iron-Silicate Glasses. (E) A. A. Belyustin, Yu. M. Ostanevich, A. M. Pisarevskii, S. B. Tomilov, U. Bai-ah, and L. Cher. *7*, 1163 (1965) [*7*, 1447 (1965)]

Mössbauer Spectra in the Presence of Electric Quadrupole and Magnetic Interactions. (T/E) G. A. Bykov, G. K. Rysanin, and V. S. Shpiniel'. *7*, 1343 (1965) [*7*, 1657 (1965)]

The Mössbauer Effect in Sn^{119} Nuclei in Ferroelectric Phase Transitions in the Solid Solution $\text{Ba}(\text{Ti}_{1-x}\text{Sn}_x)_2\text{O}_6$. (E) V. A. Bokov, V. P. Romanov, and V. V. Chekin. *7*, 1521 (1966) [*7*, 1885 (1965)]

Energy Spectrum of Defects Formed in Indium Antimonide by γ Irradiation at Low Temperatures. (E) T. V. Mashovets and R. Yu. Khaseyev. *7*, 1795 (1966) [*7*, 2229 (1965)]

Mössbauer Effect in InP and GaAs. (E) G. N. Belozerskii, Yu. A. Nemilov, S. B. Tomilov, and A. V. Shvedchikov. *7*, 2908 (1966) [*7*, 3607 (1965)]

Glass

Absorption of Light in Glassy As_2S_3 and As_2Se_3 at the Fundamental Band Edge. (E/T) E. L. Zorina. *7*, 269 (1965) [*7*, 331 (1965)]

Dielectric Properties of Glasses of the $\text{MeO}-\text{Al}_2\text{O}_3-\text{SiO}_2$ System. (E) M. D. Mashkovich and N. G. Udovenko. *7*, 417 (1965) [*7*, 524 (1965)]

On the Nature of the Dielectric Losses in Glasses at UHF. (E) M. D. Mashkovich and É. N. Smelyanaya. *7*, 811 (1965) [*7*, 1008 (1965)]

The Mössbauer Effect in Alkali-Iron-Silicate Glasses. (E) A. A. Belyustin, Yu. M. Ostanevich, A. M. Pisarevskii, S. B. Tomilov, U. Bai-ah, and L. Cher. *7*, 1163 (1965) [*7*, 1447 (1965)]

An EPR Study of Glasses Containing Chromium. (T) V. K. Zakharov and D. M. Yudin. *7*, 1267 (1965) [*7*, 1571 (1965)]

Thermal Conductivity of Semicrystalline Chalcogenide Glasses. (E) B. T. Kolomiets, L. Payasova, and L. Shourach. *7*, 1285 (1965) [*7*, 1588 (1965)]

Impurity and Induced Photoconductivity of Chalcogenide Glass $\text{TeSe-As}_2\text{Te}_2$. (E) B. T. Kolomiets, T. N. Mamontova, and G. I. Stepanov. *7*, 1320 (1965) [*7*, 1630 (1965)]

Determination of the Type of Radiation Traps in Glasses. (E) D. M. Yudin. *7*, 1399 (1965) [*7*, 1733 (1965)]

Diamond-Like Semiconductors in the Glassy State. (E) A. A. Vaipol'n, É. O. Osmanov, and Yu. V. Rad'. *7*, 1833 (1966) [*7*, 2265 (1965)]

X-Ray Spectra of Silicon in Crystalline and Glassy Quartz and in Lithium Silicate Glasses. (E) O. A. Ershov, D. A. Goginov, and A. P. Lukirskii. *7*, 1903 (1966) [*7*, 2355 (1965)]

Impurity Photoconductivity in Single-Crystal and Glassy Arsenic Selenide. (E) B. T. Kolomiets and G. I. Stepanov. *7*, 2181 (1966) [*7*, 2698 (1965)]

Reserves of Strength in Sheet Glass and Its Dispersion. (E) F. F. Vitman, G. S. Pugachev, and V. P. Pukh. *7*, 2196 (1966) [*7*, 2717 (1965)]

An Investigation of Vanadium Phosphate Glasses by Electron Paramagnetic Resonance. (E/T) V. M. Nagiev. *7*, 2204 (1966) [*7*, 2726 (1965)]

Some Features of the Magnetoresistance of Alkali Silicate Glasses After γ Irradiation and Heat Treatment. (E) L. M. Belyavskaya and A. I. Siryak. *7*, 2764 (1966) [*7*, 3427 (1965)]

Comment on the Paper "An EPR Study of Glasses Containing Chromium." (T) M. M. Zaripov. *7*, 2950 (1966) [*7*, 3666 (1965)]

Hall Effect and Nernst Effect

The Nernst-Ettingshausen Effect in Doped n-Silicon. (T/E) L. I. Domanakaya, G. I. Kharus, and I. M. Taidi'kovskii. *7*, 32 (1965) [*7*, 46 (1965)]

Transverse Hall Effect and Magnetoresistivity of Ge in Strong Magnetic Fields. (E) V. N. Lutskaia, A. A. Zhironov, and M. I. Elinson. *7*, 415 (1965) [*7*, 521 (1965)]

A Contribution to the Theory of the Anomalous Hall Effect in Ferromagnets. (T/E) Yu. Kagan and L. A. Maksimov. *7*, 422 (1965) [*7*, 530 (1965)]

Anomalous Hall and Nernst Effects in Metals Containing Paramagnetic Additions. (T) L. É. Gurevich and I. N. Yassievich. *7*, 462 (1965) [*7*, 582 (1965)]

Planar Hall Effect in Heavily Doped Germanium. (T/E) D. G. Andrianov and V. I. Fistul'. *7*, 636 (1965) [*7*, 796 (1965)]

Investigation of Surface Scattering of Charge Carriers by the Hall Current Method. (T/E) V. N. Dobrovolskii and Chan Van-Kuin'. *7*, 647 (1965) [*7*, 811 (1965)]

Hall Effect in p-Type Germanium in Strong Electric Fields. (E) K. Repshas, R. Vashkevichus, V. Denis, and Yu. Pozhela. *7*, 740 (1965) [*7*, 927 (1965)]

Calculation of the Hall Constant in Weak Magnetic Fields in the Presence of Impurity Scattering. (T) I. P. Zvyagin. *7*, 779 (1965) [*7*, 968 (1965)]

Effect of Random Inhomogeneities on the Measurement of the Thermal emf and the Nernst Coefficient in a Strong Magnetic Field. (T) V. A. Rudinov and B. Ya. Molzhes. *7*, 1868 (1966) [*7*, 2309 (1965)]

Temperature Dependence of the Hall Effect and of the Electrical Conductivity of Germanium Telluride. (E) A. A. Andreev, L. M. Syssoeva, and E. Ya. Lev. *7*, 2086 (1966) [*7*, 2558 (1965)]

Hall Coefficient of Liquid Alloys of the Hg-Tl System. (E) A. A. Andreev and A. R. Regel'. *7*, 2076 (1966) [*7*, 2567 (1965)]

Transverse Resistance and the Hall Effect in p-Type Germanium in Strong Magnetic Fields in the Temperature Range 78-300°K. (E) E. A. Svislova, F. F. Bekker, and Li Pin-tsung. *7*, 2328 (1966) [*7*, 2871 (1965)]

Investigation of the Hall Effect in Gadolinium and Terbium. (E) N. A. Babushkina. *7*, 2450 (1966) [*7*, 3026 (1965)]

Hall Effect in Neodymium and Samarium. (E) N. V. Volkenashteln and G. V. Fedorov. *7*, 2599 (1966) [*7*, 3213 (1965)]

- The Effect of Microinhomogeneities on the Nernst Effect in InSb. (E) I. L. Driehko and I. V. Mochan. *J.* 2634 (1966) [*J.* 3260 (1965)]
- Some Properties of p -Type CdSnAs_2 . (E) V. V. Galavanov, N. A. Goryunova, N. M. Korshak, S. Mamaev, and A. Nazarov. *J.* 2949 (1966) [*J.* 3655 (1965)]
- Instrumentation**
- Investigation of the Thermal Vibrations of the Atoms in Copper by Neutron Spectrometry. (E) E. Z. Vintakin, V. V. Gorbachev, and P. L. Gruzin. *J.* 296 (1965) [*J.* 367 (1965)]
- Hybrid Neutron Spectrometer System. (E) B. A. Kotov, N. M. Okuneva, and A. L. Shakh-Budagov. *J.* 1146 (1965) [*J.* 1423 (1965)]
- Ions and Ionic Crystals**
- Surface Phenomena in Ionic Crystals. (T) I. M. Lifshits and Ya. E. Geguzin. *J.* 44 (1966) [*J.* 62 (1965)]
- Density Change of Ionic Crystals Subjected to Plastic Compression. (E) R. I. Garber and L. M. Polyakov. *J.* 127 (1965) [*J.* 167 (1965)]
- Floitation Study of the Distribution of Singly Charged Impurity Ions in the Growth of NaCl Single Crystals. (E) G. A. Andreev and B. P. Aleksandrov. *J.* 135 (1965) [*J.* 177 (1965)]
- Influence of Impurity Anions Containing Oxygen on the Density of NaCl and KCl Single Crystals. (E) G. A. Andreev. *J.* 140 (1965) [*J.* 183 (1965)]
- Absorption Spectrum of the Fe^{3+} Ion in $\text{PbFe}_{0.9}\text{Nb}_{0.1}\text{O}_3$ and in $\text{Ga}_{1-x}\text{Fe}_x\text{O}_3$. (E) R. V. Pisarev. *J.* 158 (1965) [*J.* 207 (1965)]
- Problem of the Energy Spectrum of the Fe^{3+} Ion in Connection with the Electrical Conductivity of Ferrite Spinel. (T) A. A. Samokhvalov and A. N. Men'. *J.* 221 (1965) [*J.* 283 (1965)]
- Relaxation of Rare-Earth Ions. (T/E) G. A. Bogachev. *J.* 243 (1965) [*J.* 306 (1965)]
- Spin-Lattice Relaxation of the Fe^{3+} Ion in Natural Andalusite at Low Temperatures. (E) I. I. Eru, S. A. Peikovskii, and A. N. Chernets. *J.* 293 (1965) [*J.* 363 (1965)]
- Polarization and Motion of Pores in an Ionic Crystal in an Electric Field. (T) A. M. Kosevich. *J.* 360 (1965) [*J.* 451 (1965)]
- The Distribution of Charge Near a Prismatic Dislocation Loop in an Ionic Crystal. (T) A. M. Kosevich, I. G. Margvelashvili, and Z. K. Saralidze. *J.* 370 (1965) [*J.* 464 (1965)]
- Transmission of Alkali-Metal Ions Through Thin Films. (E/T) E. M. Zarutskii. *J.* 518 (1965) [*J.* 650 (1965)]
- Appearance of Cross Relaxation and the Spectrum of Exchange-Coupled Ion Pairs in Paramagnetic Crystals. (T/E) I. D. Mash and M. I. Rodak. *J.* 576 (1965) [*J.* 717 (1965)]
- Displacements of the Electron Shells of Ions in a NaCl Crystal During Thermal Vibrations. (T/E) A. I. Raichenko. *J.* 698 (1965) [*J.* 877 (1965)]
- EPR Spectra of the Gd^{3+} Ion in Single Crystals of CeO_2 . (E) I. V. Vinokurov, Z. N. Zonn, and V. A. Ioffe. *J.* 814 (1965) [*J.* 1012 (1965)]
- The Problem of the Reaction of Thermionic Emission on the Value of the Saturation Current. (T) L. D. Tseden. *J.* 864 (1965) [*J.* 1078 (1965)]
- Singularities of the Conduction-Electron Spectrum in Semiconductors having Ionic Structures Located in a Strong Magnetic Field. (T) B. M. Askerov and F. M. Gashimzade. *J.* 894 (1965) [*J.* 1114 (1965)]
- The Theory of the EPR Spectrum of Pairs of Exchange-Bound Paramagnetic Ions in Crystals. (T) A. E. Nikiforov and V. I. Cherepanov. *J.* 931 (1965) [*J.* 1162 (1965)]
- The Problem of the Effect of an Electric Field on the EPR Spectrum of Pairs of Chromium Ions in Corundum. (T) A. E. Nikiforov. *J.* 1005 (1965) [*J.* 1248 (1965)]
- Action of Low-Energy Nitrogen Ions on the Surface of Germanium. (E) V. F. Symorov, S. S. Bulgakov, and V. V. Stepanov. *J.* 1108 (1965) [*J.* 1375 (1965)]
- Photoionization Absorption in Alkali Halide Crystals in the Range 23–190 Å. (E) T. M. Zimkina and A. P. Lukirskii. *J.* 1170 (1965) [*J.* 1455 (1965)]
- Kinetics of Dislocation Pinning by Point Defects in Ionic Crystals. (E) A. A. Bistatnov, I. V. Troitski, and M. P. Shaskol'skaya. *J.* 1492 (1965) [*J.* 1856 (1965)]
- Influence of the Crystal Structure of the Target on the Energy Spectra of Scattered Ions. (E) E. S. Mashkova and V. A. Molchanov. *J.* 1506 (1965) [*J.* 1872 (1965)]
- Distribution of Singly-Charged Ion Impurities in the Growth of KCl and KBr Single Crystals. (E) G. A. Andreev. *J.* 1517 (1965) [*J.* 1883 (1965)]
- Application of the Method of Secondary Ion-Ion Emission to the Study of the Interaction of Oxygen with a Niobium Surface. (E) V. I. Shvachko, B. T. Nadykto, Ya. M. Fogel', B. M. Vasyutinskii, and G. M. Kartmanov. *J.* 1572 (1965) [*J.* 1944 (1965)]
- Conductivity Induced in Germanium by Bombardment with Potassium Ions in Different Crystallographic Directions. (E) I. A. Abroyan and A. I. Titov. *J.* 1619 (1966) [*J.* 2007 (1965)]
- The Theory of Vibrations of Impure NaCl-Type Ionic Crystals. Localized Vibrations. (T) G. S. Zavit. *J.* 1698 (1966) [*J.* 2109 (1965)]
- Inclusion of Term "Interaction" in Calculating the EPR Spectra of Ions of the Iron Group. (T) A. N. Men', F. I. Mufatkova, A. P. Nikolaev, and V. I. Cherepanov. *J.* 1754 (1966) [*J.* 2180 (1965)]
- Additionally Reduced Divalent Rare Earths in Fluorite Crystals. (E) V. A. Arkhangelskaya, B. I. Maksanov, and P. P. Fedilov. *J.* 1827 (1966) [*J.* 2260 (1965)]
- Electron Paramagnetic Resonance of Trivalent Ions of Gadolinium and Iron in Synthetic Calcite. (E) V. A. Atsarkin, V. G. Lushnikov, and L. P. Sorokina. *J.* 1912 (1966) [*J.* 2367 (1965)]
- Complexes of Impurity Ions (Mn^{2+} and F^{-}) in Strontium Chloride Crystals. (E) M. I. Kornfeld and L. S. Sochava. *J.* 1931 (1966) [*J.* 2391 (1965)]
- Calculation of the Energy Spectra of Ions Having $3d^N$ Configuration in a Cubic Crystal Field. (T) V. V. Druzhinin, V. I. Cherepanov, and V. S. Levin. *J.* 2023 (1966) [*J.* 2513 (1965)]
- Estimate of the Exchange Interaction of the Excited Mn^{2+} Ion in MnO . (E/T) R. V. Pisarev and G. A. Smolenskii. *J.* 2064 (1966) [*J.* 2556 (1965)]
- A Contribution to the Method of Pseudopotentials for Ion Cores in Metals. (T) V. K. Nikulin. *J.* 2189 (1966) [*J.* 2708 (1965)]
- The Relationship Between Electrical Conductivity and the State of the V^{4+} Ions in V_2O_5 Crystals. (E) L. V. Dmitrieva, V. A. Ioffe, and I. B. Patrino. *J.* 2228 (1966) [*J.* 2754 (1965)]
- Comparison of the EPR of Nd^{3+} and Ce^{3+} Ions in Two Crystals of the Homologous Scheelite Series. (E) I. N. Kurik and L. Ya. Shekun. *J.* 2308 (1966) [*J.* 2852 (1965)]
- Spin-Lattice Relaxation Times in Spin Systems Containing Two Kinds of Paramagnetic Ions. (T) B. M. Khabibullina. *J.* 2350 (1966) [*J.* 2894 (1965)]
- Scattering of Ions by the Surfaces of Alloys. (E) E. S. Mashkova, V. A. Molchanov, V. Sochava, and M. A. Faruk. *J.* 2371 (1966) [*J.* 2921 (1965)]
- EPR Spectra and Coordination Structure of Paramagnetic Ions in NH_4Cl . (E/T) M. M. Zaripov and G. K. Chirkina. *J.* 2391 (1966) [*J.* 2947 (1965)]
- Paramagnetic Resonance of the Mn^{2+} Ion in Synthetic Octahedral CdCO_3 . (E) V. N. Grechushnikov and V. F. Koryagin. *J.* 2527 (1966) [*J.* 3123 (1965)]
- The Distortion of the NaF Lattice by Impurity Ions. (E) V. S. Mandel'. *J.* 2534 (1966) [*J.* 3130 (1965)]
- Cross Section for the Capture of Holes by Mercury and Zinc Ions in Germanium. (E) S. A. Kaufman and K. M. Kulikov. *J.* 2536 (1966) [*J.* 3132 (1965)]
- Secondary Emission of Germanium Under Bombardment by Potassium Ions Along Various Crystallographic Directions. (E) I. A. Abroyan, V. P. Lavrov, and A. I. Titov. *J.* 2557 (1966) [*J.* 3159 (1965)]

- EPR Rhombic Spectra of Dy^{3+} and Nd^{3+} Ions in CaF_2 . (E) N. E. Kask, L. S. Kornienko, and A. O. Rybalovskii. **J.** 2614 (1966) [**J.** 3234 (1965)]
- Secondary Emission of Excited Cesium Atoms During Bombardment of Molybdenum and Tantalum by Fast Cesium Ions. (E) V. I. Vekaler and B. A. Tsipinsky. **J.** 2725 (1966) [**J.** 3386 (1965)]
- Forbidden Fine-Structure Transitions of the Gd^{3+} Ion in a CoO_4 Crystal. (T/E) G. L. Bir and I. V. Vinokurov. **J.** 2730 (1966) [**J.** 3392 (1965)]
- Correction to the Article "The Theory of the EPR Spectrum of Pairs of Exchange-Bound Paramagnetic Ions in Crystals." (T) A. E. Nikiforov and V. I. Cherepanov. **J.** 2769 (1966) [**J.** 3431 (1965)]
- Calculation of Energy Spectrum of $3d^N$ -Configuration Ions in a Crystal Field Having Cubic Symmetry. (T/E) V. V. Druzhinin. **J.** 2820 (1966) [**J.** 3490 (1965)]
- Self-Diffusion of Na^+ Ions Along Edge and Screw Dislocations in NaCl Single Crystals. (E) Ya. E. Geguzin and E. R. Dobrovinskaya. **J.** 2826 (1966) [**J.** 3498 (1965)]
- Angular Dependence of the Secondary Emission Coefficients for a KBr Single Crystal Bombarded with Potassium Ions. (E) I. A. Abroyan, V. P. Lavrov, and I. G. Fedorova. **J.** 2954 (1966) [**J.** 3660 (1965)]
- Role of Hole Processes in the Formation of F-Centers in Ionic Crystals During the Initial Stage of Radiation-Induced Coloration. (E) R. O. Vilu and M. A. Elango. **J.** 2987 (1966) [**J.** 3673 (1965)]
- Influence of Oxygen on the Ionic Conductivity of Fluorite Crystals. (E) V. A. Arkhangelskaya, T. I. Nikitinskaya, and M. S. Tyutin. **J.** 2976 (1966) [**J.** 3682 (1965)]
- Observation of Paramagnetic Resonance of Dy^{3+} Ions in $CaWO_4$ Single Crystals. (E) A. A. Antipin, I. N. Kurkin, L. Z. Potvorova, and L. Ya. Shekun. **J.** 2979 (1966) [**J.** 3685 (1965)]
- Investigation of EPR of Mn^{2+} Ions in Single Crystals of $ZnMoO_4$. (E) V. F. Dornov-Pogarev, M. M. Zaripov, M. I. Samoilovich, and V. G. Stepanov. **J.** 2983 (1966) [**J.** 3688 (1965)]
- ### Irradiation Effects
- Investigation of the Interaction of Oxygen with Tungsten by the Method of Electron-Stimulated Desorption. (T/E) Ya. P. Zingerman and V. A. Ischuk. **J.** 173 (1965) [**J.** 227 (1965)]
- The Energy Structure of γ -Radiation Defects in Germanium. (E/T) T. V. Mashovets and R. Yu. Khansevarov. **J.** 245 (1965) [**J.** 308 (1965)]
- Radiation Defects in Very Pure Silicon Crystals. (E) V. S. Vavilov, S. I. Vintovkin, A. S. Lyubovich, A. F. Plotnikov, and A. A. Sokolova. **J.** 399 (1965) [**J.** 502 (1965)]
- Irradiation of n-type Ge with Fast Neutrons. (E/T) K. L. Starostin, Yu. F. Tuturov, and L. B. Poretaki. **J.** 522 (1965) [**J.** 654 (1965)]
- Current Oscillations in Germanium Containing Radiation Defects. (E/T) A. B. Gerasimov and S. M. Rykin. **J.** 526 (1965) [**J.** 657 (1965)]
- Emission of Electrons on Bombardment of Alkali Halide Single Crystals with Slow Helium and Argon Ions. (E) A. I. Kondrashev and N. N. Petrov. **J.** 1255 (1965) [**J.** 1559 (1965)]
- The Influence of Vacancies on Focuson Ranges. (T) S. A. Kurkin and D. D. Odintsov. **J.** 1269 (1965) [**J.** 1573 (1965)]
- Investigation of the Motion of Carriers in Organic Substances. (E/T) E. L. Frankovich and E. I. Balabanov. **J.** 1352 (1965) [**J.** 1667 (1965)]
- Paramagnetic Resonance of Free Silver Atoms Formed in Frozen Solutions of Silver Salts Irradiated at 77°K. (E) R. A. Zhitnikov and A. L. Orbell. **J.** 1559 (1966) [**J.** 1926 (1965)]
- Generation of Vacancies in KBr-Sr Irradiated by a Proton Beam. (E) I. Ya. Melik-Galkazyan and V. M. Lisitsyn. **J.** 1610 (1966) [**J.** 1994 (1965)]
- Silicon Solar Cells Produced by Ion Bombardment. (E) V. M. Gusev, V. V. Timov, M. I. Guseva, and V. I. Kurinnyi. **J.** 1673 (1966) [**J.** 2077 (1965)]
- Energy Spectrum of Defects Formed in Indium Antimonide by γ Irradiation at Low Temperatures. (E) T. V. Mashovets and R. Yu. Khansevarov. **J.** 1796 (1966) [**J.** 2229 (1965)]
- Low-Temperature Annealing of Germanium, Irradiated with Fast Electrons. (E) A. B. Gerasimov and B. M. Konovalev. **J.** 2054 (1966) [**J.** 2545 (1965)]
- Hysteresis Nature of the Current-Voltage Characteristic of a p-n Junction Produced by Irradiation in Germanium. (E) A. B. Gerasimov, N. D. Dolidze, B. M. Konovalev, and S. M. Rykin. **J.** 2070 (1966) [**J.** 2562 (1965)]
- Structural Changes in Neutron Irradiated α -Quartz. (E/T) E. V. Kolontsova and I. V. Telegina. **J.** 2207 (1966) [**J.** 2730 (1965)]
- Electrical Properties of Indium Antimonide Irradiated by Neutrons at 77°K and by Electrons at 300°K. (E) L. K. Vodopyanov and N. I. Kurdiani. **J.** 2224 (1966) [**J.** 2749 (1965)]
- The Contribution of Isolated and Group Defects to the Change in Carrier Mobility and Concentration in n-Ge During Bombardment by Fast Neutrons. (E/T) K. L. Starostin, Yu. F. Tuturov, and Yu. P. Milovanov. **J.** 2347 (1966) [**J.** 2890 (1965)]
- The Electrical Conductivity of Inversion Layers Formed in n-Silicon by Bombardment with Boron Ions. (T) P. V. Pavlov, E. I. Zorin, D. I. Tetelbaum, and E. K. Grantsyna. **J.** 2386 (1966) [**J.** 2940 (1965)]
- Appearance of an EMF on the Annealing of NaCl: Ag Single Crystals Irradiated with Beta-Particles. (E) V. P. Avdonin, I. A. Vasil'ev, G. A. Mikhail'chenko, B. T. Plachemov, and V. A. Shibaev. **J.** 2514 (1966) [**J.** 3110 (1965)]
- Radiation-Induced Changes in the Properties of Ferroelectrics. Due to an Internal Bias Field. (E) S. V. Starodubets and E. V. Peshkov. **J.** 2570 (1966) [**J.** 3175 (1965)]
- Secondary Emission of Excited Cesium Atoms During Bombardment of Molybdenum and Tantalum by Fast Cesium Ions. (E) V. I. Vekaler and B. A. Tsipinsky. **J.** 2725 (1966) [**J.** 3386 (1965)]
- Radiative Recombination in Silicon Containing Radiation-Induced Defects. (E) A. V. Yuhnevich and V. D. Tkachev. **J.** 2746 (1966) [**J.** 3410 (1965)]
- Some Features of the Magnetoresistance of Alkali Silicate Glasses After γ Irradiation and Heat Treatment. (E) L. M. Belyakovskaya and A. L. Stryak. **J.** 2764 (1966) [**J.** 3427 (1965)]
- Possibility of Transmutation Doping of Indium Antimonide. (E) Sh. M. Mirzashvili, D. I. Nanobashvili, and Z. G. Ramadze. **J.** 2877 (1966) [**J.** 3566 (1965)]
- Electrical Conductivity of X-Ray Irradiated Fluorite Crystals. (E) Yu. B. Vladimirovskii and T. I. Nikitinskaya. **J.** 2912 (1966) [**J.** 3612 (1965)]
- Role of Hole Processes in the Formation of F-Centers in Ionic Crystals During the Initial Stage of Radiation-Induced Coloration. (E) R. O. Vilu and M. A. Elango. **J.** 2987 (1966) [**J.** 3673 (1965)]
- ### Isotopes
- Methods for Determining the Isotopic Diffusion Effect in a Solid. (T/E) A. N. Naumov and V. B. Plushnik. **J.** 543 (1965) [**J.** 677 (1965)]
- Isotopic Effect in the Diffusion of Lithium in Sodium. (E) A. N. Naumov and G. Ya. Ryskin. **J.** 558 (1965) [**J.** 695 (1965)]
- Texture in Layers of Gases Condensed on a Cold Substrate. (E) A. S. Bulatov, V. S. Kogan, and L. F. Yakimenko. **J.** 679 (1965) [**J.** 832 (1965)]
- Isotopic Effect in the Values of the Molar Volumes of LiF and LiH. (E) V. S. Kogan and T. G. Omarov. **J.** 747 (1965) [**J.** 933 (1965)]
- ### Magnetic Properties, Effects, and Materials
- Two-Phonon Processes in the Spin-Lattice Relaxation of F-Centers. (T) V. Ya. Kravchenko and V. L. Vinetskii. **J.** 1 (1965) [**J.** 3 (1965)]
- Screw Structures in MnO_2 . (T) O. V. Kovalev. **J.** 77 (1965) [**J.** 103 (1965)]

- The Energy Gap for the Spin Waves in Ferro- and Antiferromagnets, as Related to the Magnetoelastic Energy. (T) E. A. Turov and V. G. Shavrov. *J.* 166 (1965) [*J.* 217 (1965)]
- Allowance for the Magnetoelastic Coupling in the Motion of a Magnetic Moment. (T) A. M. Rodichev and R. G. Khlebopros. *J.* 210 (1965) [*J.* 274 (1965)]
- Magnetic Susceptibility of Samarium Monosulfide. (E/T) V. E. Adamyan, A. V. Golubkov, and G. M. Logvinov. *J.* 239 (1965) [*J.* 301 (1965)]
- Magnetoresistance Oscillations in Pure n-InSb. (E/T) I. M. Tsidil'kovskii, M. M. Aksel'rod, and V. I. Sokolov. *J.* 253 (1965) [*J.* 316 (1965)]
- One-Phonon Spin-Lattice Relaxation under the Action of Optical Vibrations. (T/E) V. L. Vinetskii and V. Ya. Kravchenko. *J.* 256 (1965) [*J.* 319 (1965)]
- The Influence of an Electric Field on the Resonance Frequency of Antiferromagnets. (T/E) V. G. Shavrov. *J.* 265 (1965) [*J.* 325 (1965)]
- Spin-Lattice Relaxation of the Fe^{3+} Ion in Natural Andalusite at Low Temperatures. (E) I. I. Eru, S. A. Peskovskii, and A. N. Chernets. *J.* 293 (1965) [*J.* 363 (1965)]
- Investigation of the Structure and Magnetic Properties of Solid Solutions in the System $\text{BiFeO}_3\text{-LaCrO}_3$. (E) Yu. E. Roginskaya and Yu. N. Venetsev. *J.* 321 (1965) [*J.* 400 (1965)]
- The Role of Surface Currents in Transport Processes in a Magnetic Field. (T) S. V. Peletminskii and V. G. Bar'yakhtar. *J.* 356 (1965) [*J.* 446 (1965)]
- Study of Magnetoacoustic Effects in Gallium at 210 Mc. (E) P. A. Bezuglyi, A. A. Galkin, and S. E. Zheva. *J.* 383 (1965) [*J.* 480 (1965)]
- Transverse Hall Effect and Magnetoresistivity of Ge in Strong Magnetic Fields. (E) V. N. Lutsaki, A. A. Zhrnov, and M. I. Elinson. *J.* 415 (1965) [*J.* 521 (1965)]
- The Thermal EMF of Semiconductors in a Quantizing Magnetic Field. (T) Yu. N. Obraztsov. *J.* 455 (1965) [*J.* 573 (1965)]
- The Dielectric Constant and the Magnetic Field Inversion Effect in the Exciton Absorption Range of CdS. (T) A. G. Zhilich. *J.* 538 (1965) [*J.* 670 (1965)]
- On the Problem of the Possible Magnetic Structures in YMO_2 -Type Antiferromagnets. (T) G. M. Nodlin. *J.* 592 (1965) [*J.* 739 (1965)]
- Effect of Plastic Deformation and Quenching on the Paramagnetic Properties of Aluminum. (T/E) I. Ya. Dekhtyar and R. G. Fedchenko. *J.* 710 (1965) [*J.* 893 (1965)]
- Possible Changes in the Magnetic Point Symmetry During Phase Transition from a Paramagnetic Phase. (T) O. V. Kovalev. *J.* 731 (1965) [*J.* 919 (1965)]
- Galvanomagnetic Properties of MnAu . (E/T) V. N. Novogrudskii and I. G. Fakidov. *J.* 879 (1965) [*J.* 1095 (1965)]
- Investigation of the Magnetic Ordering in Ferromagnetic $\text{PbFe}_{1-x}\text{Ni}_x\text{O}_2$. (E) G. M. Drabkin, E. I. Mal'tsev, and V. P. Plakhi. *J.* 897 (1965) [*J.* 1241 (1965)]
- Spin Absorption in Weak Magnetic Fields. (T) B. N. Provotorov and A. A. Samokhin. *J.* 1043 (1965) [*J.* 1289 (1965)]
- Dynamic Polarization of Protons in Hydrated Paramagnetic Salts by the Method of a Rapid, Repeated Adiabatic Crossing of the Forbidden Line. (T) G. M. Shklyaravskii. *J.* 1075 (1965) [*J.* 1331 (1965)]
- Anomalies in the Coercive Force and Residual Magnetization of Substituted Rare-Earth Ferrite Garnets. (E) I. S. Lyubutin. *J.* 1126 (1965) [*J.* 1397 (1965)]
- Bound Magnetoelastic Waves in Helical Magnetic Structures. (T) M. A. Savchenko and V. V. Gann. *J.* 1223 (1965) [*J.* 1523 (1965)]
- Rotation of the Plane of Polarization in Tetragonal Crystals with MnF_2 Type Structure. (T) N. G. Guseinov and M. N. Abdullayev. *J.* 1404 (1965) [*J.* 1738 (1965)]
- Boundary Conditions for Magnetoelastic Systems. (T) V. A. Ignatichenko and E. V. Kuz'min. *J.* 1585 (1966) [*J.* 1962 (1966)]
- Role of Thermal Conductivity and Heat Transfer in Magnetic Susceptibility. (T/E) M. I. Kaganov and L. D. Filatova. *J.* 1690 (1966) [*J.* 2098 (1965)]
- Calculation of the Paramagnetic Susceptibility of Cr^{3+} in MgAl_2O_4 . (T) V. I. Potorocha and A. N. Men'. *J.* 1823 (1966) [*J.* 2256 (1965)]
- Effect of Anisotropic Stresses on the Frequency Spectrum of Magnetoelastic Oscillations. (E/T) G. A. Petrakovskii and Yu. N. Kotyukov. *J.* 1892 (1966) [*J.* 2339 (1965)]
- Magnetophonon Oscillation of Thermal emf in n-InSb in a Longitudinal Magnetic Field. (E/T) V. M. Muzhdaba, R. V. Parfen'ev, and S. S. Shalyt. *J.* 1922 (1966) [*J.* 2379 (1965)]
- Galvanomagnetic Properties of Tellurium and Structure of the Valence Band Near the Energy Minimum. (E) I. I. Furbshtein, A. M. Pogarskii, and S. S. Shalyt. *J.* 1925 (1966) [*J.* 2383 (1965)]
- Investigation of the Galvanomagnetic Properties of Holmium. (E) N. A. Babushkina. *J.* 2048 (1966) [*J.* 2540 (1965)]
- Spin-Reversal Interaction of Electrons with Optical Phonons in Semiconductors. (T) S. T. Pavlov and Yu. A. Firsov. *J.* 2131 (1966) [*J.* 2634 (1965)]
- Nondiagonal Kinetic Coefficients of Conductors in Magnetic Field. (T) S. V. Peletminskii. *J.* 2137 (1966) [*J.* 2666 (1965)]
- Galvanomagnetic and Thermomagnetic Phenomena in a Longitudinal Quantizing Magnetic Field in n-InSb Type Semiconductors. (T) R. G. Tarkhanyan. *J.* 2174 (1966) [*J.* 2688 (1965)]
- Ferroelectricity and Magnetism in Ferroelectric-Ferromagnetic Systems. (E) Yu. Ya. Tomashpol'skii, Yu. N. Venetsev, and V. N. Bernsdrev. *J.* 2235 (1966) [*J.* 2783 (1965)]
- Negative Longitudinal Magnetoresistance Accompanying Scattering by Acoustic Phonons. (T) L. S. Dubinskaya. *J.* 2280 (1966) [*J.* 2821 (1965)]
- Magnetic Properties of Mn_2Ge . (E) V. N. Novogrudskii, I. G. Fakidov, and V. V. Semenov. *J.* 2319 (1966) [*J.* 2863 (1965)]
- Structure and Magnetic Properties of TiMnF_2 . (E) S. A. Kishav, A. G. Tulov, and V. A. Bokov. *J.* 2325 (1966) [*J.* 2868 (1965)]
- Effect of Ultrasonic Excitation on the Nuclear Magnetization of a Paramagnet. (T) S. B. Grigor'ev and A. M. Sazonov. *J.* 2334 (1966) [*J.* 2877 (1965)]
- Spin-Lattice Relaxation Times in Spin Systems Containing Two Kinds of Paramagnetic Ions. (T) B. M. Khabibullin. *J.* 2350 (1966) [*J.* 2894 (1965)]
- Localization of Magnetic Moments in Solid Solutions. (T) I. G. Ratishvili. *J.* 2381 (1966) [*J.* 2933 (1965)]
- A Spin Mechanism for the Transport of Charge and Energy. General Relations. (T) E. L. Nagaev. *J.* 2407 (1966) [*J.* 2969 (1965)]
- Emergence of a Multidomain State in Particles Having a Transitional Structure. (E) E. V. Shiol'ts. *J.* 2445 (1966) [*J.* 3019 (1965)]
- Spin Mechanism for Charge and Energy Transport. Antiferromagnetic and Paramagnetic States. (T) E. L. Nagaev. *J.* 2455 (1966) [*J.* 3033 (1965)]
- Ferroelectricity-Magnetism in the System $\text{PbCoWO}_6\text{-BaTiO}_3$. (E) Yu. Ya. Tomashpol'skii and Yu. N. Venetsev. *J.* 2529 (1966) [*J.* 3136 (1965)]
- Inclusion of Crystal Imperfections in the Theory of Spin-Lattice Relaxation. (T) A. B. Roitman. *J.* 2566 (1966) [*J.* 3169 (1965)]
- Polarization of Nuclear Spins of Semiconductors by Direct Current. (T) V. P. Kalashnikov. *J.* 2574 (1966) [*J.* 3180 (1965)]
- Theory of Many-Phonon Nonradiative Transitions in Local Paramagnetic Centers. (T) B. S. Tsaurkerblat and Yu. E. Perlin. *J.* 2647 (1966) [*J.* 3278 (1965)]
- Parametric Excitation of Spin Waves in Polycrystalline Samples of Mg-Mn Ferrites. (E) A. I. Pil'shchikov and E. V. Lebedeva. *J.* 2677 (1966) [*J.* 3320 (1965)]
- Investigation of the Magnetic Susceptibility of Neodymium Chalcogenides. (E) V. E. Adamyan, A. V. Golubkov, G. M. Logvinov, and V. N. Fedorov. *J.* 2715 (1966) [*J.* 3373 (1965)]

- Theory of Infrared Magneto-Optical Effects. (T) Z. I. Uritskii and G. V. Shuster. *J.* 2752 (1966) [7, 3410 (1965)]
- Paramagnetic Susceptibility of PrAlO_3 . (T/E) V. M. Yudin and A. I. Gavrilashina. *J.* 2772 (1966) [7, 3435 (1965)]
- Galvanomagnetic Effects in Semiconductors with an Inhomogeneous Impurity Distribution. (T/E) E. A. Zavadskii, Yu. T. Kovrizhnykh, and I. G. Fakidov. *J.* 2890 (1966) [7, 3582 (1965)]
- Concentration and Temperature Dependences of the Spin-Lattice Relaxation Times in Ruby. (E) S. A. Peskovskii. *J.* 2971 (1966) [7, 3678 (1965)]
- Structure and Magnetic Properties of BiMnO_3 . (E) V. A. Bokov, I. E. Myl'nikova, S. A. Kizhaev, M. F. Bryzhina, and N. A. Grigoryan. *J.* 2993 (1966) [7, 3695 (1965)]
- ### Masers and Lasers
- Synchronization of Oscillations in a Semiconductor Laser Having Several p-n Junctions. (T) N. G. Basov, E. M. Belenov, and V. S. Letokhov. *J.* 275 (1965) [7, 337 (1965)]
- Theory of Laser Emission via Band-to-Band Transitions in Impurity Semiconductors. (T) G. Yu. Buryakovskii, V. L. Vinetaki, and V. S. Mashkevich. *J.* 827 (1965) [7, 1028 (1965)]
- Electromagnetic Theory of the Injection Laser. (T) R. F. Kazarinov, O. V. Konstantinov, V. I. Perel', and A. L. Efros. *J.* 1210 (1965) [7, 1506 (1965)]
- Possibility of Creating a Superconducting State in Undoped Semiconductors by Illumination with a Powerful Laser. (T/E) A. S. Selivanenko. *J.* 1263 (1965) [7, 1567 (1965)]
- Pulsation of Stimulated Emission from Solids. (T) B. L. Zhelnov, A. P. Kazantsev, V. L. Kolpashnikov, and V. S. Smirnov. *J.* 1416 (1965) [7, 1756 (1965)]
- Generation of Laser Radiation by Direct Transitions in a Semiconductor. (T) V. L. Vinetaki and V. S. Mashkevich. *J.* 1534 (1965) [7, 1998 (1965)]
- Semiconductor Quantum Generator Based on a p-n Junction in a $\text{GaAs}_{1-x}\text{P}_x$ Compound. (E) N. G. Basov, P. G. Eliseev, V. V. Nikitin, A. V. Lishina, V. N. Maslov, and A. Ya. Nashel'skii. *J.* 1539 (1965) [7, 1902 (1965)]
- Theory of Laser Emission Associated with Indirect Band-to-Band Transitions. (T) V. S. Mashkevich and V. L. Vinetaki. *J.* 1605 (1966) [7, 1987 (1965)]
- Stimulated Traveling-Wave Radiation in Lasers. (T) B. L. Zhelnov, A. P. Kazantsev, and V. S. Smirnov. *J.* 2276 (1966) [7, 2816 (1965)]
- GaAs p-n Junction Laser with Nonuniform Distribution of Injection Current. (E) N. G. Basov, Yu. P. Zakharov, V. V. Nikitin, and A. A. Sheronov. *J.* 2532 (1966) [7, 3128 (1965)]
- Generation of Short-Wavelength Radiation and Lifetime with Respect to Spontaneous Emission in Semiconductors. (T) N. G. Basov, O. V. Bogdankevich, and Yu. M. Popov. *J.* 2853 (1966) [7, 3289 (1965)]
- Interaction of Optically Coupled GaAs p-n Junction Lasers. (E) N. G. Basov, Yu. P. Zakharov, V. V. Nikitin, and A. A. Sheronov. *J.* 2796 (1966) [7, 3460 (1965)]
- Threshold Current of a Semiconductor Laser. (T/E) G. E. Pikus. *J.* 2854 (1966) [7, 3536 (1965)]
- Line Width of a Semiconductor Laser. (T/E) G. E. Pikus and A. G. Aronov. *J.* 2863 (1966) [7, 3548 (1965)]
- Laser Action in CdS Induced by Two-Photon Optical Excitation from a Ruby Laser. (E) N. G. Basov, A. Z. Grasyuk, I. G. Zubarev, and V. A. Katulin. *J.* 2932 (1966) [7, 3639 (1965)]
- ### Mathematical Physics
- Reciprocal Problems for Certain Processes Related to Multiphonon Transitions. (T) L. S. Kuzhushkin. *J.* 38 (1965) [7, 54 (1965)]
- Calculation of the Parameters of the Spin Hamiltonian of Cr^{3+} in MgAl_2O_4 . (T) V. I. Cherepanov and A. N. Men'. *J.* 219 (1965) [7, 282 (1965)]
- Interpolation Formulas for the Cold Pressing of Materials. (T/E) N. N. Kalitkin and I. A. Govorukhina. *J.* 287 (1965) [7, 355 (1965)]
- Adiabatic Approximation in the Theory of Low Mobility. (T) E. K. Kudinov and Yu. A. Firsov. *J.* 435 (1965) [7, 546 (1965)]
- A Method for Investigating Phase Transitions in a Solid. (T) G. L. Krasko. *J.* 1070 (1965) [7, 1324 (1965)]
- Theory of the Coalescence of Pores with a Gas. (T) Z. K. Saralidze and V. V. Slezov. *J.* 1299 (1965) [7, 1605 (1965)]
- Finding the Distribution Function of a Material Over the Lattice Period. (T) A. S. Kagan and V. M. Snovidov. *J.* 1643 (1966) [7, 2036 (1965)]
- Relaxation of Electrons and Phonons in Semimetals. (T) S. V. Peletminskii. *J.* 2153 (1966) [7, 2660 (1965)]
- Nondiagonal Kinetic Coefficients of Conductors in Magnetic Field. (T) S. V. Peletminskii. *J.* 2157 (1966) [7, 2666 (1965)]
- Equation of State of Solid Hydrogen. (T) V. P. Trublayna. *J.* 2708 (1966) [7, 3363 (1965)]
- Vander Waals Forces at High Pressures. (T) V. P. Trublayna. *J.* 2779 (1966) [7, 3443 (1965)]
- ### Metallurgy
- The Energy of Formation and the Concentration of Vacancies in Platinum. (E/T) Ya. A. Kraftmakher and E. B. Lanina. *J.* 92 (1965) [7, 123 (1965)]
- On the Question of the Absolute Value of Submicroscopically Developed in Electrolytic Films After Annealing and Under a Load. (E/T) B. Ya. Pinev and R. I. Kuznetsova. *J.* 775 (1965) [7, 961 (1965)]
- The Condensation Diagram of Bi-Sb Alloys. (E) L. S. Palatnik, N. T. Gladkikh, and M. N. Naboka. *J.* 587 (1965) [7, 1105 (1965)]
- Permittivities and Atomic Charges of Rare-Earth Metal Oxides. (E) S. S. Batanov and E. V. Dulepov. *J.* 995 (1965) [7, 1239 (1965)]
- Compression of Alkali Metals by Strong Shock Waves. (E/T) A. A. Bakanova, I. P. Dudoladov, and R. F. Trunin. *J.* 1307 (1965) [7, 1615 (1965)]
- Structure and Thermoelectric Properties of the Bismuth-Cadmium System in the Solid and Liquid States. (E) Ya. I. Dumchak, V. Ya. Prokhorenko, and N. M. Klym. *J.* 1595 (1966) [7, 1974 (1965)]
- Specific Heat of Iron Near the Curie Point. (E) Ya. A. Kraftmakher and T. Yu. Romashina. *J.* 2040 (1966) [7, 2532 (1965)]
- Concentration of Vacancies at Antiphase Boundaries in Ordered Alloys. (T) L. S. Bushnev. *J.* 2084 (1966) [7, 2575 (1965)]
- The Influence of Oxide Films on the Sublimation Kinetics. (T/E) M. B. Brodin, A. A. Zhukovitskii, and V. A. Marichev. *J.* 2107 (1966) [7, 2603 (1965)]
- Some Regularities in the Bulk Condensation of Metals and Alloys. (E) L. S. Palatnik, G. V. Fedorov, and P. N. Bogatov. *J.* 2141 (1966) [7, 2648 (1965)]
- X-Ray Spectroscopic Investigation of the Valence State of Samarium in the Metal and in Its Monosulfide. (E) S. M. Blokhin, E. E. Vainakhin, and V. M. Bertenev. *J.* 2870 (1966) [7, 3558 (1965)]
- ### Optical Properties, Effects and Techniques
- X-Ray and Optical Investigations of $\text{GaAs}_{1-x}\text{P}_x$ Crystals. (E) S. A. Abagyan, S. M. Gorodetskii, T. B. Zhukova, A. I. Zaslavskii, A. V. Lishina, and V. K. Subashiev. *J.* 153 (1965) [7, 200 (1965)]
- The Effect of Oxygen Impurity on the Optical Properties of CaF_2 -Sm Crystals. (E) L. V. Krolova, V. V. Osiko, and V. T. Udovenchik. *J.* 181 (1965) [7, 238 (1965)]
- Optical Properties of CaF_2 - Dy^{3+} Crystals. (E) Yu. K. Voron'ko, V. V. Osiko, V. T. Udovenchik, and M. M. Furstikov. *J.* 204 (1965) [7, 267 (1965)]
- Electron-Microscope Investigation of Conducting SnO_2 Films. (E) I. P. Tigane. *J.* 212 (1965) [7, 276 (1965)]
- Narrow-Line Luminescence of Hexagonal ZnS Crystals. (E/T) E. F. Gross, L. G. Suslina, and V. G. Mokerov. *J.* 229 (1965) [7, 291 (1965)]

- One-Phonon Spin-Lattice Relaxation under the Action of Optical Vibrations. (T/E) V. L. Vinetaki and V. Ya. Kravchenko. *J.* 256 (1965) [7, 319 (1965)]
- Optical Properties of Titanium Dioxide Doped with Iron. (E/T) F. A. Makovskii. *J.* 271 (1965) [7, 333 (1965)]
- Optical Properties of Dislocations in Semiconductors. (T) É. B. Sokolova. *J.* 390 (1965) [7, 489 (1965)]
- Application of a Mass-Spectroscopic Technique for Studying the Distribution of Microimpurities in Solid Substances. (E/T) G. G. Glavin and V. I. Lyubchenko. *J.* 409 (1965) [7, 513 (1965)]
- Afterglow and the Dependence of the Edge Luminescence Spectrum of CdS Single Crystals on the Excitation Intensity. (E/T) E. F. Gross, B. S. Razdritin, and S. A. Pernoigorov. *J.* 444 (1965) [7, 558 (1965)]
- The Electro-Optical Properties of $\text{NH}_4\text{H}_2\text{PO}_4$, KH_2PO_4 , and $\text{Na}_2\text{CH}_3\text{PO}_4$ Crystals in UHF Fields. (E) Yu. V. Pivarskii, G. A. Tregubov, and Yu. V. Shalidin. *J.* 530 (1965) [7, 661 (1965)]
- Faraday Effect for "Hot Electrons." (T) A. V. Subashiev. *J.* 751 (1965) [7, 936 (1965)]
- Method of Measuring the Contact Potential Difference and its Change Under the Influence of Light in Single-Crystal Cadmium Sulfide. (E) G. Nadzhakov and S. Balabanov. *J.* 957 (1965) [7, 1193 (1965)]
- Selection Rules for Optical Transitions Between Exciton Levels. (T) D. S. Bulyantsev. *J.* 1008 (1965) [7, 1250 (1965)]
- Optical Properties of $\text{CaF}_2\text{-Nd}^{3+}$ Crystals. (E/T) Yu. K. Boron'ko, L. V. Krotova, V. V. Osiko, V. T. Udovchenik, and M. M. Fursikov. *J.* 1450 (1965) [7, 1800 (1965)]
- Electronic-Vibrational Luminescence of Large-Radius Impurity Centers. (T/E) V. L. Broude, A. I. Vlasenko, É. I. Rashba, and E. F. Shoka. *J.* 1086 (1966) [7, 2094 (1965)]
- The Faraday Effect for "Hot" Electrons in Germanium and Silicon. (T) I. P. Istovova, R. F. Kazarinov, and A. V. Subashiev. *J.* 1714 (1966) [7, 2129 (1965)]
- Indirect Optical Transitions in Semiconductors Involving Carrier Interaction. (T) S. M. Rykkin, A. A. Grinberg, and N. I. Kramer. *J.* 1766 (1966) [7, 2195 (1965)]
- Luminescence of Donor-Acceptor Pairs in GaAs Crystals Doped with Cd. (E) E. F. Gross, V. I. Safarov, and V. E. Sedov. *J.* 1785 (1966) [7, 2217 (1965)]
- Excitation of the Fluorescence of Zinc Oxide by "Hot" Photoelectrons Generated by Vacuum Ultraviolet Radiation. (E) F. I. Vilesov, A. A. Zagrebkii, and Ya. M. Zelkin. *J.* 1800 (1966) [7, 2232 (1965)]
- Causes of Damping of EPR and Luminescence Signals by Photoexcited Molecules of Naphthalene in Polymethylmetacrylate. (E) E. L. Sorin and V. B. Tsaregradskii. *J.* 1936 (1966) [7, 2397 (1965)]
- Some Optical and Photoelectric Properties of MoO_3 . (E/T) R. B. Dzhanelidze, I. M. Purtseladze, L. S. Khitarishvili, R. I. Chikvaidze, and A. L. Shkol'nik. *J.* 2082 (1966) [7, 2573 (1965)]
- Spectra of Trivalent Chromium Complexes $\text{AlCl}_3\cdot\text{H}_2\text{O}$ Crystals. (E) I. I. Antipova-Karatayeva, B. N. Grechushnikov, V. F. Koryagin, and Yu. I. Kutsenko. *J.* 2192 (1966) [7, 2712 (1965)]
- Theory of Induced Absorption of Light in Crystals. (T) V. M. Aganovich and L. N. Ovander. *J.* 2263 (1966) [7, 2799 (1965)]
- Optical Absorption and Structure of Energy Bands in CdS - CdSe -x Crystals. (E/T) M. S. Brodin, M. V. Kurik, and S. P. Yurtseniyuk. *J.* 2516 (1966) [7, 3112 (1965)]
- The Roles of Boron, Nitrogen, and Gallium in the Electroluminescence of Silicon Carbide p-n Junctions. (E) G. F. Kholuyakov. *J.* 2620 (1966) [7, 3241 (1965)]
- Theory of Intraband Magneto-Optical Effects. (T) Z. I. Uritskii and G. V. Shuster. *J.* 2752 (1966) [7, 3415 (1965)]
- X-Ray Spectroscopic Investigation of the Valence State of Samarium in the Metal and in Its Monosulfide. (E) S. M. Blokhin, É. E. Vainshtein, and V. M. Bertonev. *J.* 2870 (1966) [7, 3558 (1965)]
- Light Absorption Related to Carrier Interaction in Semiconductors with "Forbidden" Optical Transitions. (T) N. I. Kramer. *J.* 2874 (1966) [7, 3562 (1965)]
- Optical Anisotropy of Tetragonal Single Crystals of Barium and Lead Titanates. (T) L. B. Meisner and A. S. Sonin. *J.* 2951 (1966) [7, 3657 (1965)]
- ### Photoconductivity
- A Study of Photoconductivity in Heavily Doped p-Silicon. (T/E) A. A. Vol'yon, S. M. Gorodetskii, and V. K. Subashiev. *J.* 53 (1965) [7, 75 (1965)]
- Photoconductivity in Irradiated Aromatic Compounds. (E/T) V. A. Tochkin. *J.* 232 (1965) [7, 293 (1965)]
- Investigation of the Effect of Photocarrier Trapping at the Surface of Silicon. (E/T) V. G. Litovchenko, A. P. Gorban', and V. P. Kovbaayuk. *J.* 449 (1965) [7, 565 (1965)]
- Kinetics of the Low-Temperature Impurity Photoconductivity in p-Type Germanium Containing Gold. (E/T) I. A. Kurova and V. V. Ostrobokorodova. *J.* 547 (1965) [7, 653 (1965)]
- Some Characteristics of the Photoconductivity Kinetics in High-Resistivity n-Type Germanium Samples Doped with Gold. (E/T) S. A. Kaufman, K. M. Kalikov, N. P. Likhman, and N. Sh. Khaikin. *J.* 668 (1965) [7, 837 (1965)]
- Influence of High Pressure on the Photoconductivity of Some Semiconductors. (T/E) A. I. Niklisk, A. V. Gerst, and Ya. Ya. Kirs. *J.* 744 (1965) [7, 931 (1965)]
- Influence of High Hydrostatic Pressure on the Photoconductivity of CdS Single Crystals. (E/T) K. Gulyamov, N. A. Tikhomirova, and V. M. Fridkin. *J.* 834 (1965) [7, 1037 (1965)]
- Photoconductivity of Diamond in the Ultraviolet Part of the Spectrum. (E) E. A. Konovalova, L. A. Sorokina, and S. A. Shevchenko. *J.* 876 (1965) [7, 1092 (1965)]
- Nature of Slow Photoconductivity in Zinc Oxide. (E) V. L. Rapoport and L. L. Basov. *J.* 902 (1965) [7, 1124 (1965)]
- Impurity Photoconductivity in p-Type Germanium Containing Beryllium. (E) N. D. Tsypkina and V. S. Vavilov. *J.* 1010 (1965) [7, 1252 (1965)]
- Determination of the Parameters of Trapping and Recombination Levels in CdS. (T/E) E. Z. Melnikov. *J.* 1228 (1965) [7, 1529 (1965)]
- Photoconcurrent Oscillations in PbO Photoresistors. (T) V. A. Izvozhnikov, M. S. Koeman, and K. A. Chernyavskii. *J.* 1248 (1965) [7, 1552 (1965)]
- Impurity and Induced Photoconductivity of Chalcohemite Glass $\text{Ti}_2\text{Se}\cdot\text{As}_2\text{Te}_3$. (E) B. T. Kolomiets, T. N. Mamontova, and G. I. Stepanov. *J.* 1320 (1965) [7, 1630 (1965)]
- Combined Investigation of the Kinetics of Recombination and Infrared Photoconcurrent Quenching Processes in Cadmium Sulfide. (T/E) V. E. Laashkarev, A. V. Lyubchenko, and M. K. Sheinkman. *J.* 1388 (1965) [7, 1717 (1965)]
- Investigation of the Photoconductivity of Cu_2O in the Temperature Range from +20 to +150°C. (E/T) Yu. V. Vorobev and Ya. I. Karkhanian. *J.* 1500 (1965) [7, 1865 (1965)]
- Influence of an Electric Field on the Long-Wavelength Edge of the Impurity Photoconductivity of Germanium Doped with Zinc and Mercury. (E) V. I. Sidorov, A. Ya. Shul'man, and T. E. Sushko. *J.* 1511 (1965) [7, 1877 (1965)]
- Photoconductivity of Cu_2S , Cu_2Se , and Cu_2Te . (E) G. P. Sorokina, Yu. M. Papashvili, and P. T. Oush. *J.* 1810 (1966) [7, 2244 (1965)]
- Spectral Distribution of the Internal Photoeffect in Hexagonal Selenium at Low Temperatures. (E) B. T. Kolomiets, V. G. Romanov, and P. K. Khodosevich. *J.* 2042 (1966) [7, 2334 (1965)]
- Concerning the Role of Trapping Levels in the Photoconductivity of GaAs. (E) N. M. Voronkova and D. N. Nasledov. *J.* 2050 (1966) [7, 2542 (1965)]
- Oscillations of the Impurity Photoconductivity in Silicon. (E) I. V. Kryukova. *J.* 2060 (1966) [7, 2551 (1965)]
- Impurity Photoconductivity in Single-Crystal and Glassy Arsenic Selenide. (E) B. T. Kolomiets and G. I. Stepanov. *J.* 2181 (1966) [7, 2698 (1965)]

- Photoconductivity of HgI_2 Single Crystals at High Hydrostatic Pressures. (E) K. Gulyanov, N. A. Tikhomirova, I. D. Turyanitsa, and V. M. Fridkin. *J.* 2201 (1966) [*J.* 2723 (1965)]
- Influence of Light on the Surface Conductivity of Germanium Having a Clean Surface. (E) P. G. Borzyak, G. A. Katrich, and O. G. Sarbel. *J.* 2266 (1966) [*J.* 2803 (1965)]
- Photoconductivity of Silicon in the Infrared Region of the Spectrum, Due to Surface Electron States. (E) Yu. A. Pasechnik and O. V. Shtok. *J.* 2759 (1966) [*J.* 3422 (1965)]
- Photocurrent Oscillations in High-Resistance GaAs. (E) Yu. I. Karkhanin and O. V. Tretyak. *J.* 2787 (1966) [*J.* 3451 (1965)]
- Mechanism of the Formation and Motion of Photocurrent Carriers in Dyes. (T/E) A. M. Meshkov. *J.* 2804 (1966) [*J.* 3463 (1965)]
- Certain Characteristics of the Kinetics of Nonequilibrium Conductivity in Lead Oxide. (E) M. A. Galanteva and V. A. Izvozhnikov. *J.* 2939 (1966) [*J.* 3646 (1965)]
- The Photoconductivity of Silicon Doped with Deep Impurities. (E) K. D. Glinchuk, A. D. Denisova, and N. M. Litovchenko. *J.* 2963 (1966) [*J.* 3669 (1965)]
- Photoconductivity Oscillations in GaP. (E) D. N. Nasledov, V. V. Negreskul, S. I. Radautsan, and S. V. Slobodchikov. *J.* 2965 (1966) [*J.* 3671 (1965)]

Photoelectric Properties and Effects

- Some Photoelectric Properties of Gallium Phosphide-Gallium Arsenide p-n Heterojunctions. (E) Zh. I. Alferov, N. S. Zimogorova, M. K. Trukan, and V. M. Tuckevich. *J.* 990 (1965) [*J.* 1235 (1965)]
- Electric and Photoelectric Properties of ZnSiP_2 . (E) N. A. Goryunova, F. P. Kasamanly, D. N. Nasledov, V. V. Negreskul, Yu. V. Rud', and S. V. Slobodchikov. *J.* 1060 (1965) [*J.* 1312 (1965)]
- Recombination-Gradient Photo-EMF in Semiconductors. (E) N. F. Kovtunyk. *J.* 1243 (1965) [*J.* 1548 (1965)]
- Anisotropy of the Electrical and Photoelectric Properties of InSe. (T/E) I. P. Zhad'ko, E. I. Rashta, V. A. Romanov, I. M. Stakhira, and K. D. Tovstuyk. *J.* 1432 (1965) [*J.* 1777 (1965)]
- Influence of the Orientation of GaAs Crystals on the Depth and Photoelectric Properties of Diffused p-n Junctions. (E) A. A. Gutkin, M. B. Kagan, V. E. Sedov, and Ya. I. Chernov. *J.* 2046
- Some Optical and Photoelectric Properties of MoO_3 . (E/T) R. B. Dzhanelidze, I. M. Putseladze, L. S. Khitarishvili, R. I. Chikviani, and A. L. Shkol'nik. *J.* 2082 (1966) [*J.* 2573 (1965)]
- External Photoeffect in Highly Doped Semiconductors. Allowance for Electron-Electron Interaction. (T) M. E. Marinichuk. *J.* 2625 (1966) [*J.* 3246 (1965)]
- The Effect of Pressure on the Spectral Distribution of the Photoeffect in InSb. (E) V. N. Ivakhno, B. V. Izvozhnikov, and I. A. Taksami. *J.* 2944 (1966) [*J.* 3659 (1965)]
- Narrow-Band-Gap Semiconductor Films which Develop Photovoltages up to 5000 V. (E) E. I. Adirovich, T. Mirzakhmudov, V. M. Rubinov, and Yu. M. Yashov. *J.* 2946 (1966) [*J.* 3652 (1965)]

Photoemission

- Photoemission of Electrons from p-Type GaAs. (E/T) A. N. Arsen'eva-Gell' and A. A. Kask. *J.* 952 (1965) [*J.* 1187 (1965)]
- Excitation of the Fluorescence of Zinc Oxide by "Hot" Photoelectrons Generated by Vacuum Ultraviolet Radiation. (E) F. I. Vilesov, A. A. Zagrubakii, and Ya. M. Zelkina. *J.* 1800 (1966) [*J.* 2232 (1965)]

Photomagnetic Properties and Effects

- Nonsteady-State Photomagnetic Effect in Germanium. (E/T) V. A. Gridin and V. F. Eleshin. *J.* 585 (1965) [*J.* 730 (1965)]

- Anisotropy of the Even Photomagnetic Effect in p-Type Germanium in Strong Magnetic Fields. (E) I. K. Kikoin and S. D. Lazarev. *J.* 2072 (1966) [*J.* 2564 (1965)]
- Anisotropy of the Even Photomagnetic Effect in Germanium. (T) Yu. M. Kagan and V. N. Sobakin. *J.* 2074 (1966) [*J.* 2565 (1965)]

Photomechanical Effects

- Certain Photoelastic Properties of Gallium Arsenide and Silicon. (T/E) V. I. Nikitenko and G. P. Martynenko. *J.* 494 (1965) [*J.* 622 (1965)]

Piezoelectric Materials, Properties, and Effects

- Piezoresistance Effect in p-Type Zinc Telluride. (E) A. V. Savitskii, and Z. V. Pankevich. *J.* 252 (1965) [*J.* 315 (1965)]
- Dependence of the Coefficient of Absorption of Ultrasound in Cadmium Sulfide Crystals on the Illumination. (E/T) A. I. Morozov. *J.* 261 (1965) [*J.* 324 (1965)]
- Thermal Ionization of Small Traps in a Cubic Piezoelectric. (T) E. P. Pokatilov, A. G. Cheban, and M. M. Rusanov. *J.* 1794 (1966) [*J.* 2226 (1965)]
- Piezoresistance of Sb_2Te_3 . (T/E) D. M. Bercha, Z. V. Pankevich, A. V. Savitskii, and K. D. Tovstuyk. *J.* 1968 (1966) [*J.* 2437 (1965)]
- Influence of the Piezopolaron Effect on the Ground-State Energy, the Effective Mass of Current Carriers, and the Absorption Spectrum of an Impurity. (T) E. P. Pokatilov. *J.* 1996 (1966) [*J.* 2479 (1965)]
- Resonance Amplification of Ultrasonic Rayleigh Waves by a Beam of Charged Particles Passing Near the Surface of a Crystal. (T) Yu. V. Gulyaev and P. E. Zil'berman. *J.* 2243 (1966) [*J.* 2772 (1965)]
- Piezoelectric Scattering by an Uncharged Dislocation. (T) I. B. Levinson. *J.* 2336 (1966) [*J.* 2879 (1965)]
- Piezoresistivity in Partially Reduced Rutile in the Temperature Range from 78 to 500°K. (E) G. L. Bir, V. N. Bogomolov, E. V. Krivitskii, and T. E. Sul'yatinskaya. *J.* 2414 (1966) [*J.* 2978 (1965)]
- Theory of Sound Amplification in Piezoelectrics by a Beam of Charged Particles. (T) F. G. Bass, S. A. Gredeskul, and M. I. Kaganov. *J.* 2496 (1966) [*J.* 3099 (1965)]
- Interaction Between an Elastic Surface Wave and Semi-Infinite Plasma. (T) S. K. Savvinykh, A. A. Karpushin, and B. S. Kiyachko. *J.* 2585 (1966) [*J.* 3194 (1965)]
- Theory of Sound Generation in Piezoelectric Semiconductors. (T) V. L. Gurevich and B. D. Laikhtman. *J.* 2603 (1966) [*J.* 3218 (1965)]
- Piezomagnetic Properties
- Piezomagnetoresistance in n-Type Germanium. (T/E) M. Mirzabaev, V. M. Tuckevich, and Yu. V. Shmartsev. *J.* 2774 (1966) [*J.* 3437 (1965)]

Plasmas

- Low-Frequency Surface Waves in a Two-Component Plasma. (T) Yu. A. Romanov. *J.* 782 (1965) [*J.* 970 (1965)]
- Interaction Between an Elastic Surface Wave and Semi-Infinite Plasma. (T) S. K. Savvinykh, A. A. Karpushin, and B. S. Kiyachko. *J.* 2585 (1966) [*J.* 3194 (1965)]
- Spatial Dispersion of Long-Wavelength Optical Oscillations in Polar Semiconductors. (T) I. G. Lang and U. S. Pashabekova. *J.* 2829 (1966) [*J.* 3502 (1965)]

Polymers

- Variation of Small-Angle X-Ray Diffraction Intensity During Contrasting of Polymers. (E) V. A. Marikhin, A. I. Slutsker, and A. A. Yastrebinskii. *J.* 352 (1965) [*J.* 441 (1965)]
- Effect of Mechanical Stresses on the Photolysis Kinetics of Kapron. (E) E. E. Tomashevskii, I. N. Pavlova, and A. Ya. Savostina. *J.* 387 (1965) [*J.* 485 (1965)]
- Singularities in the Phonon Spectrum of One-Dimensional Chains. (T) A. A. Ovchinnikov. *J.* 664 (1965) [*J.* 832 (1965)]
- EPR Spectra of Free Radicals Arising in the Mechanical Breakdown of Polymers. Vulcanized Rubbers. (E) P. Yu. Butyagin, V. F. Drouzdovskii, D. R. Razgon, and I. V. Kolbanov. *J.* 757 (1965) [*J.* 941 (1965)]
- Causes of Damping of EPR and Luminescence Signals by Photoexcited Molecules of Naphthalene in Polymethylmethacrylate. (E) E. L. Sorin and V. B. Tsaregradskii. *J.* 1936 (1966) [*J.* 2397 (1966)]
- The Coefficient γ in the Equation for Long-Term Strength. (E/T) Yu. M. Ivanov. *J.* 2037 (1966) [*J.* 2529 (1965)]
- Time-to-Rupture and Deformation of Polymers at Low Temperatures. (E) N. N. Peschanskaya and V. A. Stepanov. *J.* 2402 (1966) [*J.* 2962 (1965)]
- The Relationship Between Carrier Concentration and Unpaired Electron Concentration in Pyrolyzates of Polycrylonitrile. (E) R. M. Vlasova and A. V. Alapayants. *J.* 2488 (1966) [*J.* 3079 (1965)]

Quantum Mechanics

- System of Quantum-Kinetic Equations for Electrons in Metals with Intersecting Bands. (T) A. I. Semenenko. *J.* 975 (1965) [*J.* 1216 (1965)]
- Quantum Oscillations of Nuclear Relaxation Time in Semimetals. (T) G. E. Gurgenshvilii and G. R. Khutsishvili. *J.* 1078 (1965) [*J.* 1335 (1965)]
- The Theory of Oscillations in the Longitudinal Magnetoresistance. (T) A. L. Éfros. *J.* 1206 (1965) [*J.* 1501 (1965)]
- The Theory of the Sensitivity of Quantum Counters. (T) U. Kh. Kopylov and B. M. Khabibullin. *J.* 1233 (1965) [*J.* 1535 (1965)]
- LCAO Method for Arbitrary System of Atoms. (T) A. I. Gubanov. *J.* 2547 (1966) [*J.* 3145 (1965)]

Recombination

- Possibility of Auger Recombination in Multiply Charged Centers in Germanium and Silicon. (T) M. K. Sheinkman. *J.* 18 (1965) [*J.* 28 (1965)]
- Spectral Characteristics of Gallium Arsenide Photocells. (E) A. A. Gorkin, D. N. Nasledov, and V. E. Sedov. *J.* 59 (1965) [*J.* 91 (1965)]
- Generation-Recombination Noise in Silicon Doped with Boron and Indium. (E/T) V. V. Proklov, É. É. Godik, and Ya. E. Pokrovskii. *J.* 263 (1965) [*J.* 326 (1965)]
- Degeneracy Factors of Impurity Levels and the Analysis of Electrical Properties of Germanium Doped with Gold. (E/T) V. V. Ostrobrodova. *J.* 484 (1965) [*J.* 610 (1965)]
- Recombination Radiation of p-n Tunnel Junctions in GaAs. (E) A. N. Imenkov, M. M. Koslov, S. S. Meskin, D. N. Nasledov, V. N. Ravich, and B. V. Tsarenkov. *J.* 504 (1965) [*J.* 634 (1965)]
- Radiative Recombination in Germanium Crystals Having a High Density of Dislocations. (E/T) A. A. Gippius, V. S. Vavilov, L. A. Goncharov, and M. S. Murashov. *J.* 513 (1965) [*J.* 645 (1965)]
- Radiative Recombination at Radiation Structure Defects in Germanium. (E/T) A. A. Gippius and V. S. Vavilov. *J.* 515 (1965) [*J.* 647 (1965)]

- The Possibility of Recombination Instability in Semiconductors. (T) V. L. Bonch-Bruевич and S. G. Kalashnikov. *J.* 599 (1965) [*J.* 750 (1965)]
- Radiative Recombination at Edge Dislocations in Germanium. (E/T) Yu. L. Ivanov. *J.* 629 (1965) [*J.* 788 (1965)]
- Interimpurity Recombination in Gallium Arsenide. (E/T) V. P. Dobrego, S. M. Ryvkin, and A. L. Shkol'nik. *J.* 671 (1965) [*J.* 843 (1965)]
- Recombination of Nonequilibrium Charge Carriers at Cadmium Ions in Germanium. (E/T) M. I. Igitay and E. S. Yurova. *J.* 723 (1965) [*J.* 912 (1965)]
- New Data on the Electron-Excited Recombination Radiation Spectrum of Cadmium Telluride. (E) V. S. Vavilov, É. L. Nolle, and V. D. Egorov. *J.* 749 (1965) [*J.* 934 (1965)]
- Influence of Deformation on the Interimpurity Recombination in Germanium. (E/T) V. P. Dobrego and S. M. Ryvkin. *J.* 770 (1965) [*J.* 954 (1965)]
- Role of Water in the Formation of Dominant Surface Recombination Centers on Germanium. (E) Yu. F. Novototalskiy. *J.* 870 (1965) [*J.* 1086 (1965)]
- Generation-Recombination Noise in an InSb Photoresistor. (T/E) N. N. Kolachevskii and Rozhdetsvenskii. *J.* 898 (1965) [*J.* 1119 (1965)]
- Intrinsic Recombination Radiation of Zinc Telluride. (E) M. V. Kot, L. M. Panasyuk, A. V. Simashevich, and A. E. Taurkan. *J.* 999 (1965) [*J.* 1242 (1965)]
- Intrinsic Recombination Radiation of ZnSe-ZnTe Heterojunctions. (E) M. V. Kot, L. M. Panasyuk, A. V. Simashevich, A. E. Taurkan, and D. A. Sherban. *J.* 1001 (1965) [*J.* 1244 (1965)]
- Determination of the Parameters of Trapping and Recombination Levels in CdS. (T/E) E. Z. Melikhov. *J.* 1228 (1965) [*J.* 1529 (1965)]
- Recombination-Gradient Photo-EMF in Semiconductors. (E) N. F. Korytnyuk. *J.* 1243 (1965) [*J.* 1548 (1965)]
- Probability (Yield) of Radiative Recombination in Cadmium Telluride for Electron Excitation. (E) V. S. Vavilov, É. L. Nolle, and S. N. Makasimovskii. *J.* 1253 (1965) [*J.* 1558 (1965)]
- Impurity Recombination Radiation of Diodes Made of Indium-Doped n-Type Silicon. (E) Ya. E. Pokrovskii and K. I. Sviridunova. *J.* 1278 (1965) [*J.* 1579 (1965)]
- Combined Investigation of the Kinetics of Recombination and Infrared Photocurrent Quenching Processes in Cadmium Sulfide. (T/E) V. E. Lashkevich, A. V. Lyubchenko, and M. K. Sheinkman. *J.* 1388 (1965) [*J.* 1717 (1965)]
- Auger Recombination Involving Carriers Located at Different Centers. (T) E. I. Tolpygo, K. B. Tolpygo, and M. K. Sheinkman. *J.* 1442 (1965) [*J.* 1790 (1965)]
- Carrier Recombination at Zinc Atoms in n-Silicon. (E) B. V. Kornilov. *J.* 1446 (1965) [*J.* 1795 (1965)]
- Impurity and Interimpurity Radiative Recombination in Silicon. (E/T) Ya. E. Pokrovskii and K. I. Sviridunova. *J.* 1478 (1965) [*J.* 1837 (1965)]
- Recombination Radiation in GaAs Under the Action of Individual α -Particles. (E) F. M. Berkovskii. *J.* 1523 (1965) [*J.* 1889 (1965)]
- Concerning the Theory of Generation-Recombination Noise in Semiconductors. (T) V. L. Bonch-Bruевич. *J.* 1728 (1966) [*J.* 2147 (1965)]
- Recombination Radiation Spectrum of Gallium Arsenide with Current Excitation via p-n Heterojunctions of Gallium Phosphide-Gallium Arsenide. (E) Zh. I. Alferov and D. Z. Gabruzov. *J.* 1919 (1966) [*J.* 2375 (1965)]
- Generation-Recombination Noise in a Magnetic Field. (T) V. A. Kovarskii and I. A. Chaikovskii. *J.* 2013 (1966) [*J.* 2499 (1965)]
- Recombination Relaxation in Quantizing Magnetic Fields. (T) V. A. Kovarskii and I. A. Chaikovskii. *J.* 2018 (1966) [*J.* 2505 (1965)]
- Recombination Radiation in p-n Junctions of Crystals of the CdTe-ZnTe System. (E) M. V. Kot and A. E. Taurkan. *J.* 2304 (1966) [*J.* 2848 (1965)]

- The Theory of Radiative Recombination via Impurity Centers in Homogeneous Semiconductors. (T) V. L. Bonch-Bruyevich and A. A. Drugova. *J.* 2491 (1966) [*J.* 3083 (1965)]
- Influence of Impurities on the Recombination Radiation Spectra of Gallium Arsenide. (E) A. N. Imenkov, L. M. Kogan, M. M. Kozlov, S. S. Meskin, D. N. Nasledov, and B. V. Tsarenkov. *J.* 2519 (1966) [*J.* 3115 (1965)]
- Temperature Dependences of the Cross Sections for the Capture of Electrons by Recombination Centers in CdS and CdSe. (E) M. K. Shevskan, I. Ya. Gorodetskii, and I. B. Ermolovich. *J.* 2538 (1966) [*J.* 3134 (1965)]
- Long-Wavelength Recombination Radiation from Germanium, Associated with Interaction Between Carriers. (E) A. A. Rogachev and S. M. Ryvkin. *J.* 2690 (1966) [*J.* 3339 (1965)]
- Radiative Recombination in Silicon Containing Radiation-Induced Defects. (E) A. V. Yuhnevich and V. D. Tkachev. *J.* 2746 (1966) [*J.* 3410 (1965)]
- Recombination of Nonequilibrium Charge Carriers in InAs Single Crystals. (E) M. I. Igiltin and E. V. Solov'eva. *J.* 2770 (1966) [*J.* 3433 (1965)]
- Inclusion of Recombination Within the Space-Charge Region Near the Surface of a Semiconductor. (T) R. S. Nakhmanson. *J.* 2776 (1966) [*J.* 3439 (1965)]
- The Effect of Doping on Recombination Radiation in the n-Type Base Region of GaSb Diodes. (E) Ya. E. Pokrovskii and K. I. Svirshchev. *J.* 2800 (1966) [*J.* 3464 (1965)]
- Recombination of Hot Carriers Through Recombination Centers on the Surface of Germanium. (E) S. P. Kal'venas and Yu. K. Pochela. *J.* 2836 (1966) [*J.* 3512 (1965)]

Resonance

- Electron Paramagnetic Resonance of Iron Group Ions in NH_4Cl Single Crystals. (E) M. M. Zaripov and G. K. Chirkina. *J.* 74 (1965) [*J.* 100 (1965)]
- Effect of Impurities on the Nuclear Quadrupole Resonance Spectra of the α - and γ -Modifications of Bi_2O_3 . (E) I. N. Pen'kov and I. A. Saif. *J.* 145 (1965) [*J.* 190 (1965)]
- Resonance Effects in Zinc in an Inclined Magnetic Field. (E/T) V. P. Naberezhnykh and V. L. Mel'nik. *J.* 197 (1965) [*J.* 258 (1965)]
- Influence of a Local Surface Irregularity on the Ferromagnetic Resonance Linewidth. (T/E) M. E. Levinshstein. *J.* 201 (1965) [*J.* 263 (1965)]
- Electron Paramagnetic Resonance of Gd^{3+} in Synthetic SrMoO_4 . (T/E) I. N. Kurkin and V. G. Stepanov. *J.* 223 (1965) [*J.* 285 (1965)]
- Nuclear Magnetic Resonance Associated with the Nuclei of Paramagnetic Atoms. (T) S. A. Al'tahaler and R. M. Mineeva. *J.* 247 (1965) [*J.* 310 (1965)]
- Cyclotron Resonance of Hot Electrons. (E/T) V. P. Lobachev and D. A. Kichigin. *J.* 375 (1965) [*J.* 470 (1965)]
- On the New Electron Paramagnetic Resonance Spectrum of Neodymium in CaF_2 Single Crystals. (E) N. E. Kaak and L. S. Kornienko. *J.* 497 (1965) [*J.* 625 (1965)]
- Relaxation Processes in Paramagnetic Resonance of U^{3+} and Tb^{3+} in CaF_2 . (E) B. G. Berulava, T. I. Sanadze, and O. G. Khakhanashvili. *J.* 509 (1965) [*J.* 640 (1965)]
- Electron Paramagnetic Resonance of Irradiated Single Crystals of Fluorite Containing a Neodymium Addition. (E) N. E. Kaak, L. S. Kornienko, and A. O. Rybalovskii. *J.* 532 (1965) [*J.* 663 (1965)]
- On the Nuclear Acoustic Resonance in Ferro- and Antiferromagnets. (T) L. L. Balshvili and N. P. Giorgadze. *J.* 614 (1965) [*J.* 769 (1965)]
- Double Nuclear Resonance on the Hyperfine Levels of Paramagnetic Ions and F^{19} in CaF_2 . (E) A. G. Akhmedov and R. A. Dautov. *J.* 727 (1965) [*J.* 915 (1965)]
- Investigation of the Peculiarities of Phase Transitions in the Cl_2CNO_2 Molecular Crystal by Nuclear Quadrupole Resonance. (E) T. A. Babushkina, V. I. Robas, I. A. Safin, and G. K. Semin. *J.* 737 (1965) [*J.* 924 (1965)]
- Electron Paramagnetic Resonance of Yb^{3+} Ions in Hexagonal ZnS . (T/E) A. A. Antipin, I. N. Kurkin, and L. Ya. Shekun. *J.* 753 (1965) [*J.* 938 (1965)]
- EPR Spectra of Free Radicals Arising in the Mechanical Breakdown of Polymers. Vulcanized Rubbers. (E) P. Yu. Butyagin, V. F. Drozdovskii, D. R. Razgon, and I. V. Kolbanev. *J.* 757 (1965) [*J.* 941 (1965)]
- Effect of the Electric Field on the EPR Spectrum. (T) V. V. Druzhinin. *J.* 764 (1965) [*J.* 948 (1965)]
- Paramagnetic Resonance of Terbium in Single Crystals of PbMoO_4 . (E/T) A. A. Antipin, I. N. Kurkin, V. G. Stepanov, and L. Ya. Shekun. *J.* 792 (1965) [*J.* 985 (1965)]
- The Spin-Phonon Width of the Exchange Resonance Line. (T) G. M. Genkin and N. G. Golubeva. *J.* 795 (1965) [*J.* 989 (1965)]
- EPR Spectra of the Cd^{2+} Ion in Single Crystals of CoCl_2 . (E) I. V. Vinokurov, Z. N. Zonn, and V. A. Ioffe. *J.* 814 (1965) [*J.* 1012 (1965)]
- Paramagnetic Resonance of Free Atoms of the Alkali Metals Na, K, and Rb, Stabilized in a Molecular Matrix at Liquid-Nitrogen Temperatures. (E) R. A. Zhitnikov and N. V. Kolesnikov. *J.* 927 (1965) [*J.* 1157 (1965)]
- The Theory of the EPR Spectrum of Pairs of Exchange-Bound Paramagnetic Ions in Crystals. (T) A. E. Nikiforov and V. I. Cherepanov. *J.* 931 (1965) [*J.* 1162 (1965)]
- The Spin-Lattice Relaxation Mechanism in Systems Having Inversion Splitting. (T/E) I. B. Bersuker and B. G. Vekhter. *J.* 986 (1965) [*J.* 1231 (1965)]
- The Problem of the Effect of an Electric Field on the EPR Spectrum of Pairs of Chromium Ions in Corundum. (T) A. E. Nikiforov. *J.* 1005 (1965) [*J.* 1248 (1965)]
- EPR in Supercooled Solutions of Fe(III) , Ru(III) , and Os(III) . (E) N. S. Garif'yanov and É. G. Kharakhsh'yan. *J.* 1033 (1965) [*J.* 1274 (1965)]
- Time Dependence of Equilibrium Magnetization of Nuclear Spin Systems Under the Influence of Ultrasound. (E/T) A. M. Sazanov and S. B. Grigor'ev. *J.* 1120 (1965) [*J.* 1389 (1965)]
- Paramagnetic Resonance of Erbium and Europium in Synthetic Single Crystals of PbMoO_4 . (E) A. A. Antipin, A. N. Katsyav, I. N. Kurkin, and L. Ya. Shekun. *J.* 1148 (1965) [*J.* 1425 (1965)]
- Investigations of the Temperature and Frequency Dependences of the Ferromagnetic Resonance Line Width in Ferrite Single Crystals Near the Curie Temperature. (E) B. M. Lebed' and K. V. Shevlyagin. *J.* 1220 (1965) [*J.* 1519 (1965)]
- An EPR Study of Glasses Containing Chromium. (T) V. K. Zakharov and D. M. Yudin. *J.* 1267 (1965) [*J.* 1571 (1965)]
- Paramagnetic Resonance of Trivalent Samarium in Single Crystals of CaF_2 . (E) A. A. Antipin, I. N. Kurkin, L. D. Livanova, L. Z. Potvorova, and L. Ya. Shekun. *J.* 1271 (1965) [*J.* 1575 (1965)]
- A Contribution to the Theory of Spin Absorption by Donor Electrons in Semiconductors. (T) A. F. Volkov. *J.* 1304 (1965) [*J.* 1612 (1965)]
- Compensation of Sublattice Magnetic Moments in Yttrium Iron-Gallium Garnet. (E) B. E. Rubinshtein, A. G. Titova, and B. L. Lapovok. *J.* 1328 (1965) [*J.* 1639 (1965)]
- Nuclear Magnetic Resonance of ^{19}F in NaNiF_2 and NaCoF_3 . (E) M. P. Petrov. *J.* 1348 (1965) [*J.* 1665 (1965)]
- Nuclear Resonance Absorption of Ultrasound in Crystals Containing Paramagnetic Impurities. (T) Sh. F. Muratjan. *J.* 1368 (1965) [*J.* 1690 (1965)]
- Hyperfine Structure of the Paramagnetic Resonance Spectra of Free Ag, Au, and Cu Atoms Stabilized in a Matrix of Benzene at Liquid-Nitrogen Temperatures. (E) R. A. Zhitnikov and N. V. Kolesnikov. *J.* 1382 (1965) [*J.* 1710 (1965)]

- Ferromagnetic Resonance in Yttrium Garnet Doped with Terbium.** (E) V. I. Solov'ev and A. G. Gurevich. *J.* 1420 (1965) [7, 1761 (1965)]
- Nuclear-Magnetic-Resonance Investigations of the Trifluorides of Rare-Earth Elements of the Cerium Group.** (E) E. A. Baurina, Yu. A. Luk'yanchuk, and O. T. Malyukhov. *J.* 1527 (1965) [7, 1892 (1965)]
- Paramagnetic Resonance of Free Silver Atoms Formed in Frozen Solutions of Silver Salts Irradiated at 77°K.** (E) R. A. Zhitnikov and A. L. Orbeli. *J.* 1559 (1966) [7, 1926 (1965)]
- Acoustic Magnetic Resonance and Relaxation Absorption by Virtual Phonons.** (T) U. Kh. Kopylov. *J.* 1637 (1966) [7, 2028 (1965)]
- Effect of Interaction Through a Phonon Field on the Intensity of Paramagnetic Resonance Absorption.** (T/E) B. M. Khabibullin. *J.* 1668 (1966) [7, 2070 (1965)]
- Calculation of the Fourth Moment for Nuclear Magnetic Resonance in Ferro-Dielectrics.** (T) L. B. Vatova. *J.* 1717 (1966) [7, 2133 (1965)]
- Nuclear Magnetic Resonance in Paramagnetic TiMgF₃.** (E) M. P. Petrov and G. A. Smolenskii. *J.* 1735 (1966) [7, 2156 (1965)]
- Inclusion of Term "Interaction" in Calculating the EPR Spectra of Ions of the Iron Group.** (T) A. N. Men', F. I. Muftakova, A. P. Nikolaev, and V. I. Cherepanov. *J.* 1754 (1966) [7, 2180 (1965)]
- Inclusion of Spin-Lattice Relaxation in Deriving the Ferromagnetic Resonance Equations.** (T) O. A. Ol'khov. *J.* 1848 (1966) [7, 2282 (1965)]
- Electron Paramagnetic Resonance of Trivalent Ions of Gadolinium and Iron in Synthetic Calcite.** (E) V. A. Atsarkin, V. G. Lushnikov, and L. P. Sorokina. *J.* 1912 (1966) [7, 2367 (1965)]
- Causes of Damping of EPR and Luminescence Signals by Photo-excited Molecules of Naphthalene in Polyethyleneacrylate.** (E) E. L. Serin and V. B. Tsaregradskii. *J.* 1936 (1966) [7, 2397 (1965)]
- Electron Paramagnetic Resonance of Atomic Hydrogen in Beryllium.** (T/E) V. F. Koryagin and B. N. Grechushnikov. *J.* 2010 (1966) [7, 2496 (1965)]
- EPR Study of Silicon and Lead Sulfide Surfaces.** (E) T. T. Bykova and I. V. Vinokurov. *J.* 2103 (1966) [7, 2597 (1965)]
- Spectra of Trivalent Chromium Complexes AlCl₃·6H₂O Crystals.** (E) I. I. Antipova-Karataeva, B. N. Grechushnikov, V. F. Koryagin, and Yu. I. Kutsenko. *J.* 2192 (1966) [7, 2712 (1965)]
- An Investigation of Vanadium Phosphate Glasses by Electron Paramagnetic Resonance.** (E/T) V. M. Nagiev. *J.* 2204 (1966) [7, 2728 (1965)]
- Theory of Nuclear Magnetic Resonance in Ferrometals.** (T) L. L. Bulshvili, N. P. Giorgadze, and G. A. Kharadze. *J.* 2258 (1966) [7, 2793 (1965)]
- Comparison of the EPR of Nd³⁺ and Ce³⁺ Ions in Two Crystals of the Homologous Scheelite Series.** (E) I. N. Kurkin and L. Ya. Shekun. *J.* 2308 (1966) [7, 2852 (1965)]
- Inversion and Line Width of Paramagnetic Resonance Absorption in Chromium-Doped Rutile in the 20-cm Waveband.** (E/T) N. V. Karlov and B. B. Krynetskii. *J.* 2321 (1966) [7, 2865 (1965)]
- Ferromagnetic Resonance in Bi₂Fe₂Si₂O₁₂ Garnet Single Crystals.** (E) B. E. Rubinshtein and A. G. Titova. *J.* 2323 (1966) [7, 2867 (1965)]
- Magnetophonon Resonance in the Region of the Self-absorption Edge.** (T) L. I. Korovin. *J.* 2330 (1966) [7, 2873 (1965)]
- Modulation of NMR Signal Under Conditions of Strong Saturation.** (T) A. A. Samokhin. *J.* 2353 (1966) [7, 2895 (1965)]
- EPR Spectra and Coordination Structure of Paramagnetic Ions in NH₄Cl.** (E/T) M. M. Zaripov and G. K. Chirkina. *J.* 2391 (1966) [7, 2947 (1965)]
- Electrical and Radiopetroscopic Investigations of Barium Titanate with Additives of Oxides of Trivalent Elements.** (E) B. A. Rotenberg, Yu. L. Danilyuk, E. I. Glindin, and V. G. Prokhatylov. *J.* 2465 (1966) [7, 3048 (1965)]
- Electron Paramagnetic Resonance and Spin-Lattice Relaxation of Nonequivalent Systems of Chromium Ions in ZnWO₄ Single Crystals.** (E/T) V. A. Atsarkin, L. P. Litovkina, and M. L. Mell'man. *J.* 2502 (1966) [7, 3099 (1965)]
- EPR of Nd³⁺ in BaWO₄.** (E) A. A. Antipin, I. N. Kurkin, L. I. Potkina, M. I. Samoilovich, and L. Ya. Shekun. *J.* 2508 (1966) [7, 3105 (1965)]
- Paramagnetic Resonance of Gadolinium in Synthetic Powellite.** (E) M. L. Mell'man and N. N. Solov'ev. *J.* 2512 (1966) [7, 3108 (1965)]
- Paramagnetic Resonance of the Mn²⁺ Ion in Synthetic Otavite CdCO₃.** (E) V. N. Grechushnikov and V. F. Koryagin. *J.* 2527 (1966) [7, 3123 (1965)]
- EPR Study of Tetragonal Sm²⁺ Centers in Single Crystals of CaWO₄.** (E) A. A. Antipin, I. N. Kurkin, L. Z. Potvorova, and L. Ya. Shekun. *J.* 2596 (1966) [7, 3209 (1965)]
- EPR Rhombic Spectra of Dy³⁺ and Nd³⁺ Ions in CaF₂.** (E) N. E. Kask, L. S. Kornienko, and A. O. Rybalovskii. *J.* 2614 (1966) [7, 3234 (1965)]
- EPR and Second-Order Phase Transitions in NH₄Cl.** (E) M. M. Zaripov and G. K. Chirkina. *J.* 2744 (1966) [7, 3409 (1965)]
- On Phase Transition in Iodobenzene.** (E) T. A. Babushkina. *J.* 2766 (1966) [7, 3428 (1965)]
- Correction to the Article "The Theory of the EPR Spectrum of Pairs of Exchange-Bound Paramagnetic Ions in Crystals."** (T) A. E. Nikiforov and V. I. Cherepanov. *J.* 2769 (1966) [7, 3431 (1965)]
- Paramagnetic Resonance of Hydrogen Atoms Formed in Frozen Acids Irradiated at 77°K.** (E) R. A. Zhitnikov and A. L. Orbeli. *J.* 2843 (1966) [7, 3522 (1965)]
- Effect of Crystal Defects on the Line Width of Ferromagnetic Resonance in Ferrites.** (E) I. A. Deryugina and V. V. Danilov. *J.* 2894 (1966) [7, 3588 (1965)]
- Characteristics of the Scattering of Neutron by Ferromagnets in the Region of Ferroacoustic Resonance.** (T) A. A. Klochikhin and I. Ya. Korenblit. *J.* 2916 (1966) [7, 3617 (1965)]
- Electron Paramagnetic Resonance of Terbium in CoO.** (E) Ya. S. Greznev, M. M. Zaripov, and V. G. Stepanov. *J.* 2937 (1966) [7, 3644 (1965)]
- Acoustical Resonance in Magnetic Substances Having a Simple Helicoidal Structure.** (T) L. L. Bulshvili, N. P. Giorgadze, and G. A. Kharadze. *J.* 2956 (1966) [7, 3662 (1965)]
- Comment on the Paper "An EPR Study of Glasses Containing Chromium."** (T) M. M. Zaripov. *J.* 2960 (1966) [7, 3668 (1965)]
- Observation of Paramagnetic Resonance of Dy³⁺ Ions in CaWO₄ Single Crystals.** (E) A. A. Antipin, I. N. Kurkin, L. Z. Potvorova, and L. Ya. Shekun. *J.* 2979 (1966) [7, 3685 (1965)]
- Investigation of EPR of Mn²⁺ Ions in Single Crystals of ZnMoO₄.** (E) V. F. Derynov-Pegarev, M. M. Zaripov, M. I. Samoilovich, and V. G. Stepanov. *J.* 2983 (1966) [7, 3688 (1965)]
- Nuclear Magnetic Resonance in RhMnF₃.** (E) M. P. Petrov, G. S. Smolenskii, and P. P. Syrnkov. *J.* 2984 (1966) [7, 3689 (1965)]
- Ferroacoustic Resonance for Longitudinal Ultrasound Waves.** (E) G. A. Smolenskii and A. Nasyrov. *J.* 3002 (1966) [7, 3704 (1965)]

Scattering

- The "Small-Frequency" Raman Scattering Spectrum of Crystalline Stilbene and Toluene at Various Temperatures.** (E) P. A. Bazhulin and A. A. Rakhimov. *J.* 69 (1965) [7, 94 (1965)]
- Inelastic Scattering of Electrons in Thin Films.** (T/E) N. G. Nakhodkin, A. A. Ostroukhov, and V. A. Romanovskii. *J.* 161 (1965) [7, 210 (1965)]
- Temperature Dependence of the Intensity of the First-Order Raman Scattering Spectra of Crystals.** (E/T) E. V. Chislov. *J.* 216 (1965) [7, 279 (1965)]
- Investigation of the Thermal Vibrations of the Atoms in Copper by Neutron Spectrometry.** (E) E. Z. Vintalkin, V. V. Gorbachev, and P. L. Gruzina. *J.* 296 (1965) [7, 367 (1965)]
- Inelastic Scattering of Electrons by Alkali-Halide Compounds.** (T/E) M. V. Gomonyanova and N. A. Letunov. *J.* 311 (1965) [7, 387 (1965)]
- On the Scattering of Ions by Metallic Surfaces.** (T) V. A. Kvilidze, E. S. Mashkova, and V. A. Molchanov. *J.* 491 (1965) [7, 619 (1965)]

- Influence of Metal Crystal Structures on the Scattering of Slow Positive Ions.** (E) V. I. Vekler. *J.* 500 (1965) [7, 629 (1965)]
- Cross Section for Scattering of a Free Exciton by Impurities in a Molecular Crystal.** (T) O. A. Dubovskii and Yu. V. Konobeev. *J.* 762 (1965) [7, 946 (1965)]
- Slow Neutron Scattering in Antiferromagnets having Weak Ferromagnetism.** (E) V. G. Bar'yakhtar and A. G. Kvirikadze. *J.* 891 (1965) [7, 1110 (1965)]
- Effect of the Atomic Screening Factor on the Inelastic Scattering of Electrons.** (T/E) N. G. Nakhodkin, A. A. Ostrokhov, and V. A. Romanovskii. *J.* 1014 (1965) [7, 1256 (1965)]
- Effect of Hot Electron Runaway in n-InSb Temperatures.** (T/E) I. B. Levinson. *J.* 1098 (1965) [7, 1362 (1965)]
- Effect of a Two-Level Impurity System on the Phonon Spectrum of a Crystal and on One-Quantum Inelastic Neutron Scattering.** (T) E. M. Iolina. *J.* 1198 (1965) [7, 1490 (1965)]
- Investigation of Phase Transitions in Sodium and Potassium Nitrates from the Raman Scattering Spectra.** (E) É. V. Chialer. *J.* 1283 (1965) [7, 1586 (1965)]
- Temperature Dependence of the Effective Electron Mass and Some Data on the Mechanism of Electron Scattering in Mercury Selenide.** (E/T) S. A. Alliev, L. L. Korenblut, and S. S. Shalyt. *J.* 1357 (1965) [7, 1673 (1965)]
- Anisotropic Scattering in Semiconductors.** (T/E) Yu. A. Gurvich. *J.* 1372 (1965) [7, 1696 (1965)]
- Scattering of Phonons and Electrons in Solid Solutions.** (E/T) E. D. Devyatkov and V. V. Tikhonov. *J.* 1427 (1965) [7, 1770 (1965)]
- Influence of the Crystal Structure of the Target on the Energy Spectra of Scattered Ions.** (E) E. S. Mashkova and V. A. Molchanov. *J.* 1506 (1965) [7, 1872 (1965)]
- Investigation of the Low-Frequency Raman Scattering Spectra of Some Organic Crystals at Various Temperatures.** (E) A. P. Bazhulina and A. A. Rakhimov. *J.* 1681 (1966) [7, 2088 (1965)]
- Theory of the Form of the Interband Magneto-optical Absorption Lines for the Case of Elastic Scattering.** (T) L. I. Korovin and E. V. Kharitonov. *J.* 1740 (1966) [7, 2162 (1965)]
- Energy Distribution of Inelastically Scattered Electrons in Solids for Oblique Incidence of the Primary Beam.** (E) I. M. Bronshteyn and S. S. Denisov. *J.* 1819 (1966) [7, 2252 (1965)]
- Anisotropic Effect of Electron-Electron Scattering on the Conductivity of Semiconductors with Ellipsoidal Equienergy Surfaces.** (T) I. M. Dykman and P. M. Tomchuk. *J.* 1861 (1966) [7, 2298 (1965)]
- Theory of Resonance Raman Scattering of Light in Doped Crystals.** (T) E. D. Trifonov and K. Polker. *J.* 1897 (1966) [7, 2345 (1965)]
- Symmetry of Oscillations and Raman Scattering Spectra of Doped Alkali Halide Crystals.** (T) N. N. Kristofel'. *J.* 2027 (1966) [7, 2519 (1965)]
- Negative Longitudinal Magnetoresistance Accompanying Scattering by Acoustic Phonons.** (T) L. S. Dubinskaya. *J.* 2280 (1966) [7, 2821 (1965)]
- Scattering of Ions by the Surfaces of Alloys.** (E) E. S. Mashkova, V. A. Molchanov, V. Soshka, and M. A. Faruk. *J.* 2371 (1966) [7, 2921 (1965)]
- Scattering of Phonons by Cation Vacancies in Spinel.** (T/E) I. I. Vlashevskii and V. N. Skripak. *J.* 2374 (1966) [7, 2925 (1965)]
- Three-Dimensional Generalization of the Kronig-Penney Model.** (T) S. V. Maleev. *J.* 2423 (1966) [7, 2990 (1965)]
- Elastic Scattering of Excitons and Electrons by Neutral Vacancy Pairs in Alkali-Halide Crystals.** (T) S. V. Izmailov and G. A. Rozman. *J.* 2437 (1966) [7, 3006 (1965)]
- Certain Polarization Effects in the Scattering of Neutrons in Solids.** (T) S. L. Ginzburg and S. V. Maleev. *J.* 2477 (1966) [7, 3063 (1965)]
- Statistical Model Treatment of Electron-Density Distribution and X-Ray Scattering Intensity for Atoms and Ions in a Lattice.** (T) R. I. Anisachenko. *J.* 2609 (1966) [7, 3227 (1965)]
- Simultaneous Consideration of the Effects of Static Distortion, Short-Range Order, and Thermal Vibrations of Atoms in the Diffuse Scattering of X Rays by Polycrystalline Substitutional Solid Solutions.** (T) S. V. Semenovskaya and A. G. Khachatryan. *J.* 2641 (1966) [7, 3270 (1965)]
- Characteristics of the Scattering of Neutron by Ferromagnets in the Region of Ferromagnetic Resonance.** (T) A. A. Klochikhin and I. Ya. Korenblit. *J.* 2916 (1966) [7, 3617 (1965)]
- Scattering of Phonons by Large Lattice Distortions.** (E) A. V. Petrov. *J.* 2988 (1966) [7, 3691 (1965)]
- ### Semiconductor Metallurgy
- Investigation of the Time and Temperature Dependences of the Strength of Amorphous Selenium.** (E/T) S. A. Abasov, B. B. Kuliev, and Kh. M. Khalilov. *J.* 116 (1965) [7, 153 (1965)]
- The Production of Germanium Single Crystals of Predetermined Shape.** (E) S. V. Tsivinskii and A. V. Stepanov. *J.* 148 (1965) [7, 194 (1965)]
- The Nature of the Cleavage Surface of Semiconductor Crystals with p-n Junctions.** (E) V. I. Sokolov. *J.* 234 (1965) [7, 295 (1965)]
- The Morphology and Origin of Stacking Faults in Epitaxial Layers.** (E/T) V. N. Rozhanskii and K. P. Kostikova. *J.* 937 (1965) [7, 1169 (1965)]
- Tensoeffect in Filamentary Single Crystals of Silicon, Grown from the Gaseous Phase.** (E) A. V. Sandulova, I. I. Mar'yanova, and Yu. I. Zagonyach. *J.* 1277 (1965) [7, 1581 (1965)]
- Influence of the Phosphorus Impurity on the Temperature and Time Dependences of the Strength of Selenium.** (E/T) B. B. Kuliev, S. A. Abasov, and Kh. M. Khalilov. *J.* 1496 (1965) [7, 1860 (1965)]
- Interaction of Lithium and Nickel in Germanium.** (E/T) V. V. Ostroborodova and S. V. Ivanova. *J.* 1525 (1965) [7, 1890 (1965)]
- Growth and Electrical Properties of Epitaxial Layers of p-Type Gallium Phosphide.** (E) Zh. I. Alifirov, V. I. Korol'nik, M. K. Trukan, and S. P. Chaschchik. *J.* 1915 (1966) [7, 2370 (1965)]
- An Investigation of Order in an Equiaxial Germanium-Silicon Solid Solution by Measurement of Diffuse X-Ray Scattering.** (E) Ya. S. Umanakii, V. I. Prilepakii, and S. S. Gorelik. *J.* 2162 (1966) [7, 2673 (1965)]
- Investigation of Condensed ZnS-CdS and Zn-Cd-S Films of Variable Composition.** (E) L. S. Palatnik, N. T. Gladikh, and M. N. Naboka. *J.* 2306 (1966) [7, 2850 (1965)]
- Electrical and Radiospectroscopic Investigations of Barium Titanate with Addmixtures of Oxides of Trivalent Elements.** (E) B. A. Rotenberg, Yu. I. Danilyuk, E. I. Gindin, and V. G. Prokhvatilov. *J.* 2465 (1966) [7, 3048 (1965)]
- On the Possibility of Formation of a Semiconductor Compound of Barium and Gold.** (T) Yu. G. Shishkin and I. L. Sokol'skaya. *J.* 2806 (1966) [7, 3470 (1965)]
- Determination of the Deep-Lying Levels of Fe, Ni, and Co in Gallium Arsenide.** (E) V. I. Fistal' and A. M. Ageev. *J.* 2975 (1966) [7, 3681 (1965)]
- ### Semiconductor Theory
- Calculation of the Dynamic Surface-Charging Curve of Semiconductors.** (T) V. A. Tyagal and Yu. Ya. Gurevich. *J.* 7 (1965) [7, 13, (1965)]
- The Formation of Domains in Semiconductors with Negative Differential Resistance.** (T) V. L. Bonch-Bruyevich and Sh. M. Kogan. *J.* 15 (1965) [7, 23 (1965)]
- Theory of Current Carrier Injection in "Long" Diodes.** (T) Z. S. Grishnikov. *J.* 191 (1965) [7, 251 (1965)]
- Generation of Current Pulses by CdS Single Crystals.** (E) S. I. Shakhovtsova, I. D. Kononenko, and E. A. Muzalevskii. *J.* 214 (1965) [7, 278 (1965)]
- Conduction Anisotropy of Hot Electrons and Interelectron Interactions.** (T/E) I. M. Dykman and P. M. Tomchuk. *J.* 234 (1965) [7, 286 (1965)]

- Some Properties of a p(SiC)-n(GaS) Junction. (E) E. A. Sal'kov. *J.* 227 (1965) [*J.* 289 (1965)]
- The Phenomenon of the Generation of Oscillations in an n-Type Germanium Plate Doped with Copper. (E) B. V. Kornilov. *J.* 267 (1965) [*J.* 323 (1965)]
- Absorption of Light in Glassy As_2S_3 and As_2S_3 at the Fundamental-Band Edge. (E/T) E. L. Zolina. *J.* 269 (1965) [*J.* 331 (1965)]
- Microwave Conductivity of Semiconductors with Carriers Heated by a DC Field. (T) I. M. Dykman and E. I. Tolpygo. *J.* 332 (1965) [*J.* 414 (1965)]
- Impact Ionization in Germanium Doped with Zinc. (E/T) V. A. Chapin. *J.* 403 (1965) [*J.* 506 (1965)]
- The Thermal EMF of Semiconductors in a Quantizing Magnetic Field. (T) Yu. N. Obratsov. *J.* 455 (1965) [*J.* 573 (1965)]
- The Possibility of Coherent Radiation from Localized Excitons in Silicon with Excitation Produced by Injection at a p-n Junction. (T) Yu. A. Kuraki. *J.* 567 (1965) [*J.* 707 (1965)]
- Cross Sections for the Capture of Holes by Mercury Ions in Germanium. (E) L. M. Il'nov. *J.* 738 (1965) [*J.* 925 (1965)]
- Mobility of Holes and Electrical Breakdown in Silicon at Low Temperatures. (E/T) I. V. Kucherenko. *J.* 818 (1965) [*J.* 1017 (1965)]
- Optical Absorption in GaP Accompanied by the Formation of Excitons. (E/T) V. K. Subashiev and G. A. Chalikyan. *J.* 992 (1965) [*J.* 1237 (1965)]
- The Problem of the Influence of Electron Spin on the Shubnikov-De Haas Oscillations in n-Type InSb. (T/E) M. S. Brasler, R. V. Parfen'ev, and S. S. Shalyt. *J.* 1025 (1965) [*J.* 1266 (1965)]
- Modulation Effect in Photon Absorption with Insufficient Energy Resulting from Current Carrier Heating. (T) S. M. Rykkin. *J.* 1038 (1965) [*J.* 1278 (1965)]
- Thermal Ionization of Impurity Centers in the Presence of an External Electric Field. (T) A. G. Cheban. *J.* 1054 (1965) [*J.* 1303 (1965)]
- Formation and Properties of an Impurity Band in n-Type GaAs. (E/T) O. V. Emel'yanenko, T. S. Laganova, D. N. Nasledov, and G. N. Talalakin. *J.* 1063 (1965) [*J.* 1315 (1965)]
- Effect of Hot Electron Runaway in n-InSb Temperatures. (T/E) I. B. Levinson. *J.* 1098 (1965) [*J.* 1362 (1965)]
- Anisotropic Absorption of Electromagnetic Waves by Hot Carriers in Semiconductors. (E) E. M. Gershenson, Yu. A. Gurvich, and L. B. Litvak-Gorakaya. *J.* 1111 (1965) [*J.* 1378 (1965)]
- Electron-Hole Transition in a Highly Degenerate Semiconductor at Excessive Current Densities. (T/E) A. N. Imenkov, M. M. Kozlov, D. N. Nasledov, and B. V. Tsarenkov. *J.* 1190 (1965) [*J.* 1480 (1965)]
- Transport Processes in Doped Indium Antimonide at High Pressures. (E) K. M. Demchuk, I. M. Tsidil'kovskii, and K. P. Rodionov. *J.* 1237 (1965) [*J.* 1561 (1965)]
- $C_p - C_v$ for Ge Containing Various Mixtures of Electrically Active Impurities. (E) V. V. Zhdanova and T. A. Kontorova. *J.* 1281 (1965) [*J.* 1584 (1965)]
- Reply to the Paper of Yu. A. Ugal and Yu. P. Khukhryanskii [1]. (T) Yu. V. Ravich. *J.* 1295 (1965) [*J.* 1598 (1965)]
- A Contribution to the Theory of Spin Absorption by Donor Electrons in Semiconductors. (T) A. F. Volkov. *J.* 1304 (1965) [*J.* 1612 (1965)]
- On the Interaction of Conduction Electrons with Lattice Vibrations in a Semiconductor. (T) M. I. Kheifets. *J.* 1331 (1965) [*J.* 1642 (1965)]
- On the Current-Carrier Interaction in Semiconductors. (T/E) E. M. Gershenson, Yu. A. Gurvich, and R. I. Rabinovich. *J.* 1379 (1965) [*J.* 1706 (1965)]
- The Fine Structure of the Spectrum of a Local Center and an Exciton in Semiconductors with Extremum Loops. (T) V. I. Sheka. *J.* 1437 (1965) [*J.* 1783 (1965)]
- Impact Ionization and Distribution Function of Hot Carriers in Si. (E) V. K. Aladinaki. *J.* 1460 (1965) [*J.* 1813 (1965)]
- The Temperature Dependence of the Effective Mass and the Effect of Two-Phonon Processes on the Mobility in Semiconductors with a Narrow Forbidden Band. (T) Yu. I. Ravich. *J.* 1466 (1965) [*J.* 1821 (1965)]
- Transport Phenomena in n-Type InSb in the Case of Inelastic Polar Scattering of Electrons. (T/E) G. I. Guseva and A. K. Zvezdin. *J.* 1513 (1965) [*J.* 1879 (1965)]
- Investigation of the Nonequilibrium Carrier Lifetime and Noise in p-Type InSb. (E/T) A. D. Berkeliev, A. S. Volkov, V. V. Galavanov, and D. N. Nasledov. *J.* 1545 (1965) [*J.* 1908 (1965)]
- Diffusion of "Hot" Electrons in n-n Heterojunctions. (T) Z. S. Gribnikov and V. I. Mel'nikov. *J.* 1612 (1966) [*J.* 1997 (1966)]
- Utilization of X-Ray Spectral Analysis for the Investigation of the Valence State of Manganese Atoms in Complex Oxide Semiconductors. (E) E. E. Vainshtein, R. M. Ovrutskaya, and B. I. Kotlyar. *J.* 1707 (1966) [*J.* 2120 (1966)]
- The Effect of Damping on Light Absorption in Semiconductors. (T) E. M. Kuznetsova. *J.* 1749 (1966) [*J.* 2174 (1966)]
- The Possibility of Negative Absorption in the Case of Indirect Transitions Involving Carriers. (T) A. A. Gersberg, A. A. Rogachev, and S. M. Rykkin. *J.* 1774 (1966) [*J.* 2206 (1966)]
- Anisotropy of the Microwave Conductivity and Absorption in Semiconductors with Hot Carriers. (T) I. M. Dykman and E. I. Tolpygo. *J.* 1804 (1966) [*J.* 2237 (1966)]
- Formation of Nonequilibrium Carriers when a Current Passes Through Elastically Deformed Germanium. (E) I. I. Bolko. I. P. Zhad'ko, E. I. Rashta, and V. A. Romanov. *J.* 1806 (1966) [*J.* 2239 (1966)]
- Measurement of the Potential Distribution in Epitaxial p-n Structures by the Flying Light Spot Method. (E) V. Ya. Kovarskii and V. I. Shimko. *J.* 1831 (1966) [*J.* 2264 (1966)]
- Hot Electron Mobility Under Runaway Condition in n-InSb and n-GaAs at Low Temperatures. (T) I. B. Levinson. *J.* 1952 (1966) [*J.* 2417 (1966)]
- Transport Mechanism in Samarium Sulfide. (E/T) A. V. Golubkov, E. V. Goncharova, V. P. Zhure, and I. G. Mandolova. *J.* 1963 (1966) [*J.* 2430 (1966)]
- Explanation of the Observed Field-Distribution Oscillations in Germanium with an Injecting Contact. (T/E) I. V. Ioffe and A. M. Kovnatski. *J.* 2035 (1966) [*J.* 2527 (1966)]
- An Investigation of the Distribution of Inhomogeneous Regions in Semiconductors. (E) I. A. Baev and E. G. Vallyashko. *J.* 2093 (1966) [*J.* 2585 (1966)]
- Theory of Thermal Ionization of Impurity Centers. (T) A. G. Cheban and P. K. Katana. *J.* 2213 (1966) [*J.* 2735 (1966)]
- Spin-Spin Interaction via Conduction Electrons in Semiconductors. (T) B. I. Kochelaev. *J.* 2315 (1966) [*J.* 2859 (1966)]
- Calculation of Electron and Hole Coulomb Interaction at the Contact of Degenerate n- and p-Type Semiconductors. (T) Yu. V. Kopshev. *J.* 2356 (1966) [*J.* 2902 (1966)]
- Formation of Breakdown in Silicon p-n Junctions. (E) M. R. Isaev. *J.* 2442 (1966) [*J.* 3015 (1966)]
- Controlled Generation of Relaxation Oscillations at a Point Contact in n-Type Epitaxial Silicon. (E) V. Ya. Kovarskii and V. I. Shimko. *J.* 2510 (1966) [*J.* 3106 (1966)]
- Anomalous Behavior of the Mobility in Gallium Arsenide Doped with Oxygen. (E) N. M. Kolchanova and G. N. Talalakin. *J.* 2522 (1966) [*J.* 3118 (1966)]
- Cross Section for the Capture of Holes by Mercury and Zinc Ions in Germanium. (E) S. A. Kaufman and K. M. Kulikov. *J.* 2536 (1966) [*J.* 3132 (1966)]
- Determining the Forbidden-Gap Width of PbTe at High Temperatures. (E) V. A. Saakyan, E. D. Devyatkov, and I. A. Smirnov. *J.* 2541 (1966) [*J.* 3136 (1966)]
- Influence of Compensation on the Exchange Interaction of Donors in Heavily Doped n-Type Silicon. (E) B. G. Zhurkin and N. A. Penin. *J.* 2592 (1966) [*J.* 3204 (1966)]

- Temperature and Mobility of Hot Electrons in Polar Semiconductors. (T) N. N. Grigor'ev, I. M. Dykman, and P. M. Tomchuk. *J.* 2719 (1966) [*J.* 3378 (1965)]
- Change in the Transparency of p-Type Germanium in Strong Electric Fields. (E) L. E. Vorob'ev, L. P. Miasheva, U. B. Salimov, V. I. Stafeev, and A. V. Shurina. *J.* 2740 (1966) [*J.* 3404 (1965)]
- Determination of the Energy of an Electron-Hole Pair and of the Absolute Quantum Yield in the X-Ray-Induced Conductivity of CdS and CdSe Single Crystals. (E) S. V. Svechikov and V. G. Chalaeva. *J.* 2750 (1966) [*J.* 3413 (1965)]
- Stimulated Radiation from Diffused p-n Junctions in Gallium Antimonide. (E) I. V. Kryukova, V. G. Karasnikov, and L. I. Paduchikh. *J.* 2757 (1966) [*J.* 3421 (1965)]
- Determination of Effective Capture Cross Section for Holes by Singly Negatively Charged Zinc Atoms in p-Silicon by the Double Injection Method. (E) B. V. Kornilov. *J.* 2794 (1966) [*J.* 3458 (1965)]
- Inclusion of Quantum Effects in the Theory of the Space-Charge Layer in Semiconductors. (T) V. A. Tyagi and A. V. Sachenko. *J.* 2808 (1966) [*J.* 3472 (1965)]
- The Nature of the Observable Hole Conductivity in CdS Crystals with Cu Impurity. (E) N. I. Vitrikhovskii and M. V. Karik. *J.* 2869 (1966) [*J.* 3676 (1965)]
- Penetration of Electrons from Adsorbed Ions into the Volume of a Crystal by Tunneling. (E) V. V. Pospelov. *J.* 2898 (1966) [*J.* 3700 (1965)]
- Energy of Ionization by Electrons in Germanium and Silicon Carbide Crystals. (E/T) G. P. Golubev, V. S. Vavilov, and V. D. Egorov. *J.* 3000 (1966) [*J.* 3702 (1965)]
- ### Spectra
- Spectral Characteristics of Gallium Arsenide Photocells. (E) A. A. Gukin, D. N. Nasledov, and V. E. Sedov. *J.* 38 (1965) [*J.* 81 (1965)]
- Infrared Absorption Spectra of Perovskite-Type Ferroelectric Crystals. (E) A. I. Stekhanov, A. A. Karamyan, and N. I. Astaf'ev. *J.* 119 (1965) [*J.* 157 (1965)]
- Absorption Spectrum of the Fe^{3+} Ion in $\text{PbFe}_{1-x}\text{Nb}_x\text{O}_3$ and in $\text{Ga}_{2-x}\text{Fe}_x\text{O}_5$. (E) R. V. Pisarev. *J.* 158 (1965) [*J.* 207 (1965)]
- Temperature Dependence of the Intensity of the First-Order Raman Scattering Spectra of Crystals. (E/T) É. V. Chialer. *J.* 216 (1965) [*J.* 279 (1965)]
- The Structure of the Spectrum of the Radiative Capture of Holes by A-Centers in Silicon. (E) A. V. Yakhnevich. *J.* 259 (1965) [*J.* 322 (1965)]
- The Temperature Dependence of the Low-Frequency Raman-Scattering Spectrum of KH_2PO_4 and $\text{NH}_4\text{H}_2\text{PO}_4$ Crystals. (T/E) I. M. Aref'ev and P. A. Bazhulin. *J.* 326 (1965) [*J.* 407 (1965)]
- Afterglow and the Dependence of the Edge Luminescence Spectrum of CdS Single Crystals on the Excitation Intensity. (E/T) E. F. Gross, B. S. Razhina, and S. A. Permogorov. *J.* 444 (1965) [*J.* 558 (1965)]
- Optical Reflection of PbSe, PbTe, and Some of Their Solid Solutions. (E/T) M. L. Balis. *J.* 480 (1965) [*J.* 606 (1965)]
- Appearance of Cross Relaxation and the Spectrum of Exchange-Coupled Ion Pairs in Paramagnetic Crystals. (T/E) I. D. Mash and M. L. Rodak. *J.* 576 (1965) [*J.* 717 (1965)]
- Magnetic Spectra of Lithium-Zinc Ferrites. (E) L. A. Davydov, S. A. Poltinskoy, and M. F. Bryzhina. *J.* 596 (1965) [*J.* 746 (1965)]
- Electroluminescence Spectra of Strongly Degenerate Gallium Arsenide. (E/T) A. N. Imenkov, M. M. Kozlov, S. S. Meskin, D. N. Nasledov, V. N. Ravich, and B. V. Tsarenkov. *J.* 618 (1965) [*J.* 775 (1965)]
- Indirect Excitations and Phonon Spectrum of Cu_2O . (E/T) V. T. Agekyan, E. F. Gross, and A. A. Kaplyanskii. *J.* 623 (1965) [*J.* 781 (1965)]
- Singularities in the Phonon Spectrum of One-Dimensional Chains. (T) A. A. Ovchinnikov. *J.* 664 (1965) [*J.* 832 (1965)]
- Line Spectra of the Edge Absorption and Luminescence of Cadmium Telluride Crystals. (E/T) V. V. Sobolev. *J.* 725 (1965) [*J.* 914 (1965)]
- Possible Structure of the Energy Spectrum of Electrons in Crystals, Taking into Account the Operation of Time Reversal. (T) N. V. Kudryavtseva. *J.* 803 (1965) [*J.* 998 (1965)]
- Experimental Investigation of the Energy Spectrum and Emission Properties of Thin Germanium Films on Tungsten. (E) N. V. Milesnikina and I. L. Sokol'skaya. *J.* 838 (1965) [*J.* 1043 (1965)]
- Spectrum of Spin Waves in Ferro-Antiferromagnets. (T) A. I. Mitsek and V. K. Zvezdin. *J.* 848 (1965) [*J.* 1057 (1965)]
- Anomalies in the Phonon Spectra of Bismuth-Type Metals. (T) A. A. Ovchinnikov. *J.* 849 (1965) [*J.* 1183 (1965)]
- Shift of the Spectral Photosensitivity of p-n Junctions in InAs in an Electric Field. (E/T) M. P. Mikhailova, D. N. Nasledov, and S. V. Siobodchikov. *J.* 1031 (1965) [*J.* 1272 (1965)]
- Optical Absorption Spectrum of the Antiferromagnet NaNiF_3 . (E) R. V. Pisarev. *J.* 1114 (1965) [*J.* 1382 (1965)]
- Investigation of the Phonon Spectrum of Aluminum. (E) M. M. Bredov, B. A. Kotov, N. M. Okuneva, and A. L. Shakh-Budagov. *J.* 1138 (1965) [*J.* 1413 (1965)]
- Zeeman Splitting of the Radiation Line $\lambda_1 = 2.36 \mu$ in the Spectrum of a $\text{CaF}_2 \cdot \text{D}_2\text{O}$ Crystal. (E) B. P. Zakhar'yeva, A. V. Vardolomeev, and I. B. Buzanov. *J.* 1159 (1965) [*J.* 1428 (1965)]
- Fine Structure of the K_{II} - β Absorption Spectra of Cl in the Compounds LiCl , NaCl , KCl , RbCl , and CsCl . (E) T. M. Zimkina and A. P. Lukinskii. *J.* 1175 (1965) [*J.* 1462 (1965)]
- Effect of a Two-Level Impurity System on the Phonon Spectrum of a Crystal and on One-Quantum Inelastic Neutron Scattering. (T) E. M. Iolin. *J.* 1196 (1965) [*J.* 1490 (1965)]
- Investigation of Phase Transitions in Sodium and Potassium Nitrates from the Raman Scattering Spectra. (E) É. V. Chialer. *J.* 1283 (1965) [*J.* 1586 (1965)]
- Hyperfine Structure of the Paramagnetic Resonance Spectra of Free Ag, Au, and Cu Atoms Stabilized in a Matrix of Benzene at Liquid-Nitrogen Temperatures. (E) R. A. Zhitskov and N. V. Kolesnikov. *J.* 1382 (1965) [*J.* 1710 (1965)]
- Influence of the Crystal Structure of the Target on the Energy Spectra of Scattered Ions. (E) E. S. Mashkova and V. A. Molchanov. *J.* 1506 (1965) [*J.* 1872 (1965)]
- Temperature Dependence of the Intensity of the Second-Order Raman Scattering Spectrum of NaCl Crystals. (E) T. I. Maksimova, A. I. Stekhanov, and É. V. Chialer. *J.* 1515 (1965) [*J.* 1881 (1965)]
- On the Appearance of an α -Band in the Absorption Spectrum of Alkali-Halide Crystals. (T/E) G. A. Rozman. *J.* 1555 (1966) [*J.* 1921 (1965)]
- Structure of the Energy Spectrum of Disordered Solid Solutions in the Two-Band Approximation. (T) G. G. Sergeeva. *J.* 1578 (1966) [*J.* 1952 (1965)]
- On Calculating the Intensities of the Broad Lines in the Ruby Spectrum. (T) B. I. Rezer and V. I. Chersanov. *J.* 1634 (1966) [*J.* 2024 (1965)]
- Investigation of the Low-Frequency Raman Scattering Spectra of Some Organic Crystals at Various Temperatures. (E) A. P. Bazhulin and A. A. Rakhimov. *J.* 1681 (1966) [*J.* 2088 (1965)]
- Energy Spectrum of Defects Formed in Indium Antimonide by γ Irradiation at Low Temperatures. (E) T. V. Mashkova and R. Yu. Khanavov. *J.* 1796 (1966) [*J.* 2225 (1965)]
- Deformation Splitting of the Principal Excitation Line in the Reflection Spectrum of ZnTe. (E/T) A. A. Kaplyanskii and L. G. Suslina. *J.* 1881 (1966) [*J.* 2327 (1965)]
- Theory of Resonance Raman Scattering of Light in Doped Crystals. (T) E. D. Trifonov and K. Polker. *J.* 1897 (1966) [*J.* 2345 (1965)]
- Recombination Radiation Spectrum of Gallium Arsenide with Current Excitation via p-n Heterojunctions of Gallium Phosphide-Gallium Arsenide. (E) Zh. I. Alferov and D. Z. Gabrusev. *J.* 1919 (1966) [*J.* 2375 (1965)]

- Long-Wave Infrared Transmission Spectra of KH_2PO_4 . (E) I. M. Aref'ev, P. A. Bazhulin, and T. V. Mikhail'seva. *J.* 1948 (1966) [*J.* 2413 (1965)]
- Symmetry of Oscillations and Raman Scattering Spectra of Doped Alkali Halide Crystals. (T) N. N. Kristofel'. *J.* 2027 (1966) [*J.* 2519 (1965)]
- Spectral Distribution of the Internal Photoeffect in Hexagonal Selenium at Low Temperatures. (E) B. T. Kolomiets, V. G. Romanov, and P. K. Khodosevich. *J.* 2042 (1966) [*J.* 2534 (1965)]
- Spectra of Trivalent Chromium Complexes $\text{AlCl}_3 \cdot 6\text{H}_2\text{O}$ Crystals. (E) I. I. Antipova-Karatueva, B. N. Grochushnikov, V. F. Koryagin, and Yu. I. Kutsenko. *J.* 2192 (1966) [*J.* 2712 (1965)]
- Long-Wavelength Infrared Transmission Spectra of $\text{NH}_4\text{H}_2\text{PO}_4$. (E) I. M. Aref'ev, P. A. Bazhulin, and I. S. Zheludev. *J.* 2290 (1966) [*J.* 2834 (1965)]
- Elastic Vibration Spectra and Characteristic Temperatures of Germanium and Silicon. (T/E) Ya. S. Umanakul' and V. I. Prilepaki. *J.* 2399 (1966) [*J.* 2958 (1965)]
- Properties of the Electronic Spectrum in Heavily Doped Gallium Arsenide. (T/E) V. I. Fistul' and A. M. Agayev. *J.* 2461 (1966) [*J.* 3042 (1965)]
- Infrared Absorption Spectra of Antiferromagnetic Crystals of the $\text{CoF}_2(1-x)\text{-MnF}_{2x}$ System. (E) A. I. Zvyagin, V. V. Eremenko, and V. I. Kut'ko. *J.* 2505 (1966) [*J.* 3102 (1965)]
- Infrared Spectra of Potassium Nitrate at Phase Transitions. (E) S. V. Karpov and A. A. Shultin. *J.* 2761 (1966) [*J.* 3424 (1965)]
- Investigation of the Infrared Absorption Spectrum of n-Type Gallium Arsenide. (E) M. G. Mil'vidskii, V. B. Ovsnanski, E. P. Rashaevskaya, and T. G. Yugova. *J.* 2784 (1966) [*J.* 3448 (1965)]
- Calculation of Energy Spectrum of $3d^N$ -Configuration Ions in a Crystal Field Having Cubic Symmetry. (T/E) V. V. Druzhnina. *J.* 2820 (1966) [*J.* 3490 (1965)]
- Temperature Dependence of the Raman Scattering Spectra of the Ferroelectric Crystal KH_2PO_4 . (E) A. I. Stekhanov and E. A. Popova. *J.* 2849 (1966) [*J.* 3530 (1965)]
- Properties of the Fine Structure of the Absorption Spectrum of Gallium Phosphide Crystals. (E) I. S. Gorbun' and V. M. Kosarev. *J.* 2934 (1966) [*J.* 3641 (1965)]
- Line and Band Luminescence Spectra of α -SiC (6H) Crystals. (E) I. S. Gorbun', G. I. Mishnova, and Yu. M. Suleimanov. *J.* 2991 (1966) [*J.* 3694 (1965)]
- Superconductivity**
- The Specific Heat Jump in Superconductors. (T) T. K. Melik-Barkhudarov. *J.* 1103 (1965) [*J.* 1368 (1965)]
- Possibility of Creating a Superconducting State in Undoped Semiconductors by Illumination with a Powerful Laser. (T/E) A. S. Selivanenko. *J.* 1263 (1965) [*J.* 1567 (1965)]
- Superconductivity in Semiconductors. (T) R. M. Vul and A. S. Selivanenko. *J.* 1510 (1965) [*J.* 1876 (1965)]
- The Possibility of the Existence of Superconductivity in Ferromagnetic Materials Having a Domain Structure. (T) Yu. V. Kopaev. *J.* 2360 (1966) [*J.* 2907 (1965)]
- Superconductivity Phenomena in Thin Semiconductor Films. (T) V. Ya. Demikhovskii. *J.* 2993 (1966) [*J.* 3690 (1965)]
- Surface Properties**
- Surface Phenomena in Ionic Crystals. (T) I. M. Lifshits and Ya. E. Geguzin. *J.* 44 (1965) [*J.* 62 (1965)]
- Theory of Long-Wavelength Surface Excitons in Dielectric Materials. (T) V. M. Agranovich and Yu. V. Kononov. *J.* 83 (1965) [*J.* 111 (1965)]
- Investigation of the Interaction of Oxygen with Tungsten by the Method of Electron-Stimulated Desorption. (T/E) Ya. P. Zingerman and V. A. Ishchuk. *J.* 173 (1965) [*J.* 227 (1965)]
- The Role of Surface Currents in Transport Processes in a Magnetic Field. (T) S. V. Peletminskii and V. G. Bar'yakhtar. *J.* 356 (1965) [*J.* 446 (1965)]
- Investigation of the Effect of Photocurrent Trapping at the Surface of Silicon. (E/T) V. G. Litovchenko, A. P. Gorbun', and V. P. Kovbasyuk. *J.* 449 (1965) [*J.* 565 (1965)]
- Investigation of Surface Scattering of Charge Carriers by the Hall Current Method. (T/E) V. N. Dobrovolski and Chan Van-Ku'n'. *J.* 647 (1965) [*J.* 811 (1965)]
- Concerning the Structure of Surface Layers in BaTiO_3 Crystals. (E) T. N. Lezginseva. *J.* 785 (1965) [*J.* 975 (1965)]
- The Behavior of Adsorbed Cs Films on Single-Crystal Spikes of Ta and TaC. (E) N. A. Gorbatyi and E. M. Ryabchenko. *J.* 921 (1965) [*J.* 1150 (1965)]
- Surface Conductivity of Gold-Doped Germanium. (E/T) G. A. Katrich, O. G. Sarbei, and D. T. Taraschenko. *J.* 1091 (1965) [*J.* 1352 (1965)]
- Action of Low-Energy Nitrogen Ions on the Surface of Germanium. (E) V. F. Synorov, S. S. Bulgakov, and V. V. Stepanov. *J.* 1108 (1965) [*J.* 1375 (1965)]
- Application of the Method of Secondary Ion-Ion Emission to the Study of the Interaction of Oxygen with a Niobium Surface. (E) V. I. Shvachko, B. T. Nadykto, Ya. M. Fogel', B. M. Vasyutinskii, and G. N. Kartmazov. *J.* 1572 (1966) [*J.* 1944 (1965)]
- Surface Migration of Silicon on Tungsten. (E) Kh. Nolmann. *J.* 1624 (1966) [*J.* 2013 (1965)]
- Application of the Method of "Standard Curves" to Investigation of the Diffusion of Antimony on Germanium and Silicon Surfaces. (E/T) P. V. Pavlov and V. A. Pantelev. *J.* 1776 (1966) [*J.* 2209 (1965)]
- Direct Observation of Active Centers on Surfaces of Semiconducting Crystals. (E) G. I. Distler and S. A. Kobzareva. *J.* 1977 (1966) [*J.* 2450 (1965)]
- Some Characteristics of the Interaction of Oxygen with the Surface of a Tungsten Single Crystal. (E) Ya. P. Zingerman, V. A. Ishchuk, and T. A. Krutillina. *J.* 2078 (1966) [*J.* 2569 (1965)]
- EPR Study of Silicon and Lead Sulfide Surfaces. (E) T. T. Bykova and I. V. Vinokurov. *J.* 2103 (1966) [*J.* 2597 (1965)]
- Influence of Light on the Surface Conductivity of Germanium having a Clean Surface. (E) P. G. Borzyak, G. A. Katrich, and O. G. Sarbei. *J.* 2266 (1966) [*J.* 2803 (1965)]
- Surface Excitons in Uniaxial Crystals. (T) V. M. Agranovich and O. A. Dubovskii. *J.* 2343 (1966) [*J.* 2885 (1965)]
- Interaction Between an Elastic Surface Wave and Semi-Infinite Plasma. (T) S. K. Savvinykh, A. A. Karpashin, and B. S. Kiyachko. *J.* 2585 (1966) [*J.* 3194 (1965)]
- Coupled Surface Waves in Semiconductors. (T) M. I. Kheifets. *J.* 2816 (1966) [*J.* 3485 (1965)]
- Thermal Properties and Effects**
- The Temperature Dependence of the Electrical Resistivity of Germanium at Pressures up to 90 kbar. (E) N. N. Kuzin and A. A. Semerchan. *J.* 186 (1965) [*J.* 244 (1965)]
- Temperature Dependence of the Intensity of the First-Order Raman Scattering Spectra of Crystals. (E/T) E. V. Chialer. *J.* 216 (1965) [*J.* 279 (1965)]
- Temperature Dependence of the Initial Permeability of Cobalt-Zinc Ferrites. (E/T) S. A. Poltinnikov and G. M. Prikhodkina. *J.* 241 (1965) [*J.* 304 (1965)]
- Thermomechanical Treatment of Cobalt Ferrite. (E) B. Ya. Pines and N. M. Gumen. *J.* 284 (1965) [*J.* 351 (1965)]
- Specific Heat of 0.53 Solutions of Cr, Mn, Fe, and Ni in Platinum. (E/T) Yu. N. Tsvetkov and N. V. Volkenstein. *J.* 432 (1965) [*J.* 543 (1965)]
- Heat Conductivity of Iodine Antimonide in the Solid and Liquid State. (E) Kh. I. Amirhanov and Ya. B. Magomedov. *J.* 506 (1965) [*J.* 637 (1965)]

- Calculation of the Debye Temperature of Adamantane From the Inter-molecular Interaction Potential. (T) A. I. Kitalgorodskii, B. D. Koreshkov, and A. G. Kul'kin. *J.* 511 (1965) [*J.* 643 (1965)]
- Dilatometric Study of the Vitrification of Amorphous Isomers. (E) B. I. Pirozhkov. *J.* 536 (1965) [*J.* 668 (1965)]
- Temperature Coefficients of the Elastic Modul of Alkali-Halide Crystals. (T/E) V. V. Mityaevich and S. P. Nikanorov. *J.* 657 (1965) [*J.* 823 (1965)]
- Thermal Conversion of Gallium Arsenide. (E) B. I. Boltsak and F. S. Shishiyana. *J.* 822 (1965) [*J.* 1021 (1965)]
- Thermal and Electrical Properties and the Forbidden Band Width of the Bi_2Te_3 - Sb_2S_3 Solid-Solution System. (E/T) V. A. Kutasov, B. Ya. Moizhes, and I. A. Smirnov. *J.* 854 (1965) [*J.* 1065 (1965)]
- Thermal Conductivity of Solid Solutions Based on Bismuth Telluride. (E) E. A. Gurieva, A. I. Zaslavskii, V. A. Kutasov, and I. A. Smirnov. *J.* 978 (1965) [*J.* 1221 (1965)]
- Maximum Temperatures for the Stability Relation of Free Atoms Captured in Various Media at Liquid-Nitrogen Temperatures. (E) R. A. Zhitnikov and N. V. Kolesnikov. *J.* 1021 (1965) [*J.* 1263 (1965)]
- Luminescence Relaxation and Capture Processes in Silicon Carbide Crystals. (E) I. S. Gorban' and Yu. M. Suleimanov. *J.* 1035 (1965) [*J.* 1276 (1965)]
- Thermal Ionization of Impurity Centers in the Presence of an External Electric Field. (T) A. G. Cheban. *J.* 1054 (1965) [*J.* 1303 (1965)]
- Determination of the Characteristic Temperature of Copper and Cu-Sn Alloys from Measurements of the Temperature Coefficient of X-Ray Scattering. (E) Ya. I. Gravaevskaya, V. I. Iversonova, and V. P. Tarasova. *J.* 1083 (1965) [*J.* 1342 (1965)]
- The Temperature Dependence of the Magnetization of Ferrites at Low Temperatures. (E/T) V. E. Rode, R. Germann, and I. V. Grishina. *J.* 1123 (1965) [*J.* 1393 (1965)]
- Temperature Dependence of the Electric Strength of Alkali Halide Crystals. (E/T) E. A. Konorova and L. A. Sorokina. *J.* 1186 (1965) [*J.* 1475 (1965)]
- Effect of Orientation of a Growing Bismuth Crystal on the Peltier Coefficient for the Interface Between the Solid and Liquid Phases. (E) G. V. Komarov and A. R. Regel'. *J.* 1195 (1965) [*J.* 1486 (1965)]
- Some Features of the Thermal Resistance of Ferrites. (E/T) Ya. M. Bekker. *J.* 1240 (1965) [*J.* 1545 (1965)]
- Anomalies in the Heat Capacity and Heat Conduction of Complex Crystals. (T) B. G. Vekhter and I. B. Bersuker. *J.* 1265 (1965) [*J.* 1569 (1965)]
- Thermal Conductivity of Semiconducting Chalcogenide Glasses. (E) B. T. Kolomiets, L. Payasova, and L. Shourach. *J.* 1285 (1965) [*J.* 1588 (1965)]
- Thermal Conductivity and Thermoelectric Powers of n-Type Indium Phosphide at Low Temperatures. (E/S, A) A. Ya. Nashed'skii, and S. S. Shalyt. *J.* 1287 (1965) [*J.* 1590 (1965)]
- Temperature Dependence of the Effective Electron Mass and Some Data on the Mechanism of Electron Scattering in Mercury Selenide. (E/T) S. A. Aliev, L. I. Korenblut, and S. S. Shalyt. *J.* 1357 (1965) [*J.* 1673 (1965)]
- The Anomalous Temperature Dependence of the Carrier Mobility in Selenium. (E/T) E. Z. Melikhov. *J.* 1407 (1965) [*J.* 1743 (1965)]
- Dependence of the Melting Point of Selenium on Pressure. (E) K. A. Alekseev. *J.* 1440 (1965) [*J.* 1787 (1965)]
- Temperature Dependence of the Cross Section for the Capture of Holes by Impurity Centers in Germanium. (E/T) A. D. Belyaev and S. S. Malogolovets. *J.* 1529 (1965) [*J.* 1894 (1965)]
- Temperature Dependence of the Effective Electron Mass in Indium Antimonide. (T/E) V. V. Galvanov, D. N. Naaleedov, and A. S. Filipchenko. *J.* 1541 (1965) [*J.* 1904 (1965)]
- Role of Thermal Conductivity and Heat Transfer in Magnetic Susceptibility. (T/E) M. I. Kaganov and L. D. Filatova. *J.* 1690 (1966) [*J.* 2098 (1965)]
- X-Ray Characteristic Temperature of a Germanium-Silicon Solid Solution. (T/E) Ya. S. Umanski, V. I. Prilepiskii, and S. S. Gorelik. *J.* 1802 (1966) [*J.* 2235 (1965)]
- Thermoelectric Power and Thermal Conductivity of Mercury Telluride Containing Various Amounts of Impurities. (E) E. E. Kolesov and P. V. Sharavskii. *J.* 1814 (1966) [*J.* 2247 (1965)]
- Heat Capacity of Metallic Arsenic at Low Temperatures. (E) V. V. Nogveva, I. E. Paukov, and P. G. Streikov. *J.* 1884 (1966) [*J.* 2330 (1965)]
- Variation of Losses on Rotational Hysteresis in Single Crystals of Nickel-Cobalt Ferrites as the Result of Heat Treatment and Thermomagnetic Treatment. (E) N. I. Sudakov, S. Sh. Gendeleev, and A. I. Drokina. *J.* 1908 (1966) [*J.* 2362 (1965)]
- Influence of Active Impurities on the Thermal Expansion of Silicon. (E/T) S. I. Novikova. *J.* 2007 (1966) [*J.* 2483 (1965)]
- Specific Heat of Iron Near the Curie Point. (E) Ya. A. Kraftmakher and T. Yu. Romashina. *J.* 2040 (1966) [*J.* 2532 (1965)]
- Phase Transition in SeTe. (E) S. I. Novikova and L. E. Shelimova. *J.* 2052 (1966) [*J.* 2544 (1965)]
- Temperature Dependence of the Hall Effect and of the Electrical Conductivity of Germanium Telluride. (E) A. A. Andreev, L. M. Svyosova, and E. Ya. Lev. *J.* 2066 (1966) [*J.* 2558 (1965)]
- Thermal Conductivity of Holmium and Erbium from 2 to 100°K. (E) N. G. Aliev and N. V. Volkenshtein. *J.* 2068 (1966) [*J.* 2560 (1965)]
- Thermal Expansion and Grüneisen Constant for Certain Simple and Complex Semiconductors. (E) S. I. Novikova. *J.* 2170 (1966) [*J.* 2683 (1965)]
- Temperature Dependence of the Viscous Properties of Amorphous Selenium. (E) Kh. M. Khalilov and B. B. Kuliev. *J.* 2302 (1966) [*J.* 2847 (1965)]
- Elastic Vibration Spectra and Characteristic Temperatures of Germanium and Silicon. (T/E) Ya. S. Umanski and V. I. Prilepiskii. *J.* 2399 (1966) [*J.* 2958 (1965)]
- Possible Effect of Quasolocal Lattice Vibrations on the Infrared Absorption and Thermal Conductivity of KCl-H Crystals. (E) D. N. Mirilin, V. S. Oskotskii, I. I. Reshina, I. A. Smirnov, V. V. Tikhonov, and I. S. Zhurkov. *J.* 2433 (1966) [*J.* 3003 (1965)]
- Thermal Conductivity of Doped Si-Ge Solid Solutions. (E) R. S. Erofeev, K. J. Jordanishvili, and A. V. Petrov. *J.* 2470 (1966) [*J.* 3054 (1965)]
- Temperature Dependences of the Cross Sections for the Capture of Electrons by Recombination Centers in CdS and CdSe. (E) M. K. Sheinkman, I. Ya. Gorodetskii, and I. B. Ermolovich. *J.* 2538 (1966) [*J.* 3134 (1965)]
- Condensation Coefficient of Beryllium. (E) L. S. Palatnik and A. I. Fedorenko. *J.* 2561 (1966) [*J.* 3163 (1965)]
- Critical Temperature for Ordinary and Anomalous Superconductors. (T) B. T. Gelikman and V. Z. Kresin. *J.* 2659 (1966) [*J.* 3294 (1965)]
- Influence of Some Structural Factors on the Thermal Stability of Color Centers in Alkali-Halide Crystal Phosphors. (E/T) V. I. Sidiyarenko, F. N. Zaitov, and Yu. L. Lukantsever. *J.* 2664 (1966) [*J.* 3302 (1965)]
- Thermal Expansion of Doped Germanium. (E) V. V. Zhdanova and T. A. Kontorova. *J.* 2685 (1966) [*J.* 3331 (1965)]
- Specific Heat and Vacancy Formation in Titanium at High Temperatures. (E) V. O. Shestopal. *J.* 2796 (1966) [*J.* 3461 (1965)]
- Influence of Phonons on the Temperature Dependence of the Tunnel Breakdown in Silicon. (T/E) V. K. Aladinakii. *J.* 2881 (1966) [*J.* 3571 (1965)]
- Theory of Thermal Expansion in Magnetically Ordered Crystals. (T) N. G. Guseinov and Yu. M. Seldov. *J.* 2929 (1966) [*J.* 3635 (1965)]
- Thermal Conductivity and Thermoelectric Power of Gallium Arsenide at Low Temperatures. (E) S. A. Aliev and S. S. Shalyt. *J.* 2986 (1966) [*J.* 3690 (1965)]

Thermodynamics and Statistical Mechanics

- Decaying Spin Complexes. (T) S. L. Ginzburg. *J.* 112 (1965) [7, 148 (1965)]
- Theory of the Mössbauer Effect in Nonideal Crystals. (T/E) I. P. Dayub. *J.* 300 (1965) [7, 372 (1965)]
- Effect of Weak Interaction Between Layers on the Thermodynamic Behavior of a Layered Three-Dimensional Ising Lattice. (T) E. I. Neils. *J.* 534 (1965) [7, 665 (1965)]
- Statistical Theory of Nuclear Spin Diffusion. (T) L. L. Dushvili and D. N. Zubarev. *J.* 580 (1965) [7, 722 (1965)]
- Instability of Crystallization in the Presence of Inverse Heat Fluxes. (T) V. V. Voronkov. *J.* 714 (1965) [7, 899 (1965)]
- Singularities of the Conduction-Electron Spectrum in Semiconductors Having Ionic Structures Located in a Strong Magnetic Field. (T) B. M. Askerov and F. M. Gashimzade. *J.* 894 (1965) [7, 1114 (1965)]
- Theory of the Polarization Operator. (T) V. N. Plakovi and B. E. Tsakvava. *J.* 908 (1965) [7, 1132 (1965)]
- Equation of State for Cesium Iodide. (E/T) M. N. Pavlovskii, V. Ya. Vashchenko, and G. V. Simakov. *J.* 972 (1965) [7, 1212 (1965)]
- The Thermodynamics of Optical Centers in $\text{CaF}_2\text{-TR}^{3+}$ Crystals. (T) V. V. Osiko. *J.* 1047 (1965) [7, 1436 (1965)]
- Quantum Theory of an Anisotropic One-Domain Ferromagnet. (T) V. Rybarska. *J.* 1156 (1965) [7, 1436 (1965)]
- A Variational Method in the Thermodynamics of Impurity-Phonon Systems. (T) Yu. E. Perlin and I. Ya. Ogurtsov. *J.* 1180 (1965) [7, 1467 (1965)]
- Absorption of Ultrasound in Metals. (T) Yu. A. Kashlev. *J.* 1543 (1965) [7, 1906 (1965)]
- Spectral Distribution of Localized Vibrations. (T) M. A. Ivanov, L. B. Kvashina, and M. A. Krivoglaz. *J.* 1652 (1966) [7, 2047 (1966)]
- The Theory of Vibrations of Impure NaCl-Type Ionic Crystals. Localized Vibrations. (T) G. S. Zavr. *J.* 1698 (1966) [7, 2109 (1966)]
- The Effect of Damping on Light Absorption in Semiconductors. (T) E. M. Kuznetsova. *J.* 1749 (1966) [7, 2174 (1966)]
- Calculation of the Energy of Introduction and the Activation Energy for Diffusion of Hydrogen in Metals. (T) A. I. Gubanov and V. K. Nikulin. *J.* 2184 (1966) [7, 2701 (1966)]
- Characteristic Temperature of Molecular Crystals. (E) A. I. Kitaigorodskii, B. D. Korshakov, and E. L. Pikus. *J.* 2298 (1966) [7, 2843 (1966)]
- Three-Dimensional Generalization of the Kronig-Penney Model. (T) S. V. Maleev. *J.* 2423 (1966) [7, 2990 (1966)]
- Statistical Model Treatment of Electron-Density Distribution and X-Ray Scattering Intensity for Atoms and Ions in a Lattice. (T) R. I. Anashchenko. *J.* 2609 (1966) [7, 3227 (1966)]
- Phase Transition in Barium Titanate at High Hydrostatic Pressure. (E) G. G. Leonidova and T. R. Volk. *J.* 2694 (1966) [7, 3344 (1966)]
- Interband Faraday Effect in Semiconductors in Strong Crossed Electric and Magnetic Fields. (T) B. M. Askerov and F. M. Gashimzade. *J.* 2926 (1966) [7, 3631 (1966)]

Thermoelectric Properties and Effects

- Thermoelectric Properties of PbTe-SnTe Solid Solutions. (E/T) B. A. Efimova and L. A. Kolomoets. *J.* 339 (1965) [7, 424 (1965)]
- Electrical Resistance and Thermoelectric Power of La-Ce-La-Pr and Pr-Nd Alloys. (E) M. V. Vedernikov, I. A. Markova, and G. N. Meshkova. *J.* 766 (1965) [7, 950 (1965)]
- Change in Electrical Conductivity and Thermoelectromotive Force of In_2Te_3 and Ga_2Te_3 Upon Melting. (E) V. P. Zhuzh and A. I. Shelykh. *J.* 942 (1965) [7, 1175 (1965)]
- Microsegregation in Bismuth Telluride. (E) B. M. Gol'tsman and S. D. Prokhorova. *J.* 1023 (1965) [7, 1265 (1965)]

Thermal Conductivity and Thermoelectric Powers of n-Type Indium Phosphide at Low Temperatures. (E) S. A. Aliev, A. Ya. Nashed'skii, and S. S. Shalyt. *J.* 1287 (1965) [7, 1590 (1965)]

Thermal EMF in a Quantizing Magnetic Field in Semiconductors with a Multilevel Band. (T) V. S. L'vov. *J.* 1362 (1965) [7, 1680 (1965)]

Structure and Thermoelectric Properties of the Bismuth-Cadmium System in the Solid and Liquid States. (E) Ya. I. Dumchak, V. Ya. Prokhorenko, and N. M. Klym. *J.* 1595 (1966) [7, 1974 (1966)]

Temperature Dependence of the Conductivity of Silicon in Strong Electric Fields. (E) B. L. Bolchenko and V. M. Vasetskii. *J.* 1631 (1966) [7, 2021 (1965)]

Energy Spectrum of Carriers in Germanium Telluride. (E/T) L. M. Sysoeva, E. Ya. Lev, and N. V. Kolomoets. *J.* 1791 (1966) [7, 2223 (1965)]

Thermoelectric Power and Thermal Conductivity of Mercury Telluride Containing Various Amounts of Impurities. (E) E. E. Kolosov and P. V. Sharavskii. *J.* 1814 (1966) [7, 2247 (1965)]

Effect of Random Inhomogeneities on the Measurement of the Thermal emf and the Nernst Coefficient in a Strong Magnetic Field. (T) V. A. Kudinov and B. Ya. Moizhes. *J.* 1868 (1966) [7, 2308 (1965)]

Magnetophonon Oscillation of Thermal emf in n-InSb in a Longitudinal Magnetic Field. (E/T) V. M. Muzhdaba, R. V. Parfen'ev, and S. S. Shalyt. *J.* 1922 (1966) [7, 2379 (1965)]

Thermoelectric Properties of n-Type PbTe at High Temperatures. (E) T. S. Stavitskaya, V. A. Long, and B. A. Efimova. *J.* 2062 (1966) [7, 2554 (1965)]

Electrical Conductivity and Thermo-emf of Some Manganese Spinels. (E/T) I. T. Sheftel' and Ya. V. Pavlotskii. *J.* 2781 (1966) [7, 3445 (1965)]

Thermally Stimulated Thermal EMF. (T/E) B. P. Grigas and M. P. Mikalkevichyus. *J.* 2942 (1966) [7, 3649 (1965)]

Some Properties of p-Type CdSAs_2 . (E) V. V. Galavanzov, N. A. Goryunova, N. M. Korshak, S. Mamaev, and A. Nazarov. *J.* 2949 (1966) [7, 3655 (1965)]

The Dependence of the Thermo-emf of HgTe on a Transverse Magnetic Field. (E/T) E. E. Kolosov and P. V. Sharavskii. *J.* 2973 (1966) [7, 3679 (1965)]

Thermal Conductivity and Thermoelectric Power of Gallium Arsenide at Low Temperatures. (E) S. A. Aliev and S. S. Shalyt. *J.* 2986 (1966) [7, 3690 (1965)]

Thermomagnetic Phenomena

Thermomagnetic Waves in Solids and Methods for Their Experimental Determination. (T) L. E. Gurevich and B. L. Gel'mont. *J.* 560 (1965) [7, 697 (1965)]

Thermomagnetic and Galvanomagnetic Effects in Manganese Ferrites. (E) K. P. Belov, E. V. Talalova, and T. V. Kudryavtseva. *J.* 789 (1965) [7, 981 (1965)]

Theory of Dissipationless Electron Currents in a Quantizing Magnetic Field. (T) P. S. Zyryanov and V. I. Okulov. *J.* 1411 (1965) [7, 1749 (1965)]

Variation of Losses on Rotational Hysteresis in Single Crystals of Nickel-Cobalt Ferrites as the Result of Heat Treatment and Thermomagnetic Treatment. (E) N. I. Sudakov, S. Sh. Gendelev, and A. I. Drokina. *J.* 1908 (1966) [7, 2362 (1965)]

Galvanomagnetic and Thermomagnetic Phenomena in a Longitudinal Quantizing Magnetic Field in n-InSb Type Semiconductors. (T) R. G. Tarkhanyan. *J.* 2174 (1966) [7, 2688 (1965)]

Quantum Theory of Thermomagnetic Currents in Semiconductors and Metals. (T) A. I. Ansel'm, Yu. N. Obratsov, and R. G. Tarkhanyan. *J.* 2293 (1966) [7, 2837 (1965)]

Vacuum Technology

The Influence of Oxide Films on the Sublimation Kinetics. (T/E) M. B. Bronfin, A. A. Zhukovitskii, and V. A. Marichev. *J.* 2107 (1966) [*J.* 2603 (1965)]

X Rays

X-Ray and Optical Investigations of GaAs_{1-x}P_x Crystals. (E) S. A. Abagyan, S. M. Gorodetskii, T. B. Zhukova, A. I. Zaslavskii, A. V. Lishina, and V. K. Subashiev. *J.* 153 (1965) [*J.* 200 (1965)]

Variation of Small-Angle X-Ray Diffraction Intensity During Contrasting of Polymers. (E) V. A. Marikhin, A. I. Slutsker, and A. A. Yastrebinskii. *J.* 352 (1965) [*J.* 441 (1965)]

Observation of Stress Fields Around Individual Dislocations by the Method of Anomalous Transmission of X Rays. (E) L. N. Danil'chuk and T. A. Smorodina. *J.* 1003 (1965) [*J.* 1245 (1965)]

Determination of the Characteristic Temperature of Copper and Cu-Sn Alloys from Measurements of the Temperature Coefficient of X-Ray Scattering. (E) Ya. I. Graevskaya, V. I. Iveronova, and V. P. Tarasova. *J.* 1083 (1965) [*J.* 1342 (1965)]

Utilization of X-Ray Spectral Analysis for the Investigation of the Valence State of Manganese Atoms in Complex Oxide Semiconductors. (E) E. E. Vainshtein, R. M. Ovrukskaya, and B. I. Kotlyar. *J.* 1707 (1966) [*J.* 2120 (1965)]

X-Ray Characteristic Temperature of a Germanium-Silicon Solid Solution. (T/E) Ya. S. Umanski, V. I. Prilepskii, and S. S. Gorelik. *J.* 1802 (1966) [*J.* 2235 (1965)]

X-Ray Spectra of Silicon in Crystalline and Glassy Quartz and in Lithium Silicate Glasses. (E) O. A. Ershov, D. A. Goganov, and A. P. Lukirskii. *J.* 1903 (1966) [*J.* 2355 (1965)]

An Investigation of Order in an Epitaxial Germanium-Silicon Solid Solution by Measurement of Diffuse X-Ray Scattering. (E) Ya. S. Umanski, V. I. Prilepskii, and S. S. Gorelik. *J.* 2162 (1966) [*J.* 2673 (1965)]

Statistical Model Treatment of Electron-Density Distribution and X-Ray Scattering Intensity for Atoms and Ions in a Lattice. (T) R. I. Anishechenko. *J.* 2609 (1966) [*J.* 3227 (1965)]

Simultaneous Consideration of the Effects of Static Distortion, Short-Range Order, and Thermal Vibrations of Atoms in the Diffuse Scattering of X Rays by Polycrystalline Substitutional Solid Solutions. (T) S. V. Semenovskaya and A. G. Khachaturyan. *J.* 2641 (1966) [*J.* 3270 (1965)]

Determination of the Energy of an Electron-Hole Pair and of the Absolute Quantum Yield in the X-Ray Induced Conductivity of CdS and CdSe Single Crystals. (E) S. V. Svechnikov and V. G. Chalaya. *J.* 2750 (1966) [*J.* 3413 (1965)]

X-Ray Spectroscopic Investigation of the Valence State of Samarium in the Metal and in its Monosulfide. (E) S. M. Blokhin, E. E. Vainshtein, and V. M. Bertenev. *J.* 2870 (1966) [*J.* 3558 (1965)]

Electrical Conductivity of X-Ray Irradiated Fluorite Crystals. (E) Yu. B. Vladimirovskii and T. I. Nikitinskaya. *J.* 2912 (1966) [*J.* 3612 (1965)]